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21st CONGRESS,
2d Session.

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Thomas Wilson
1012 13th St. 27
LETTER Washington,
1874.

FROM

THE SECRETARY OF STATE

TRANSMITTING A LIST OF

ALL PATENTS GRANTED BY THE UNITED STATES

THE

ACTS OF CONGRESS RELATING THERETO,

AND THE

DECISIONS OF COURTS OF THE UNITED STATES UNDER THE SAME.

1123-1830.

JANUARY 13, 1831.

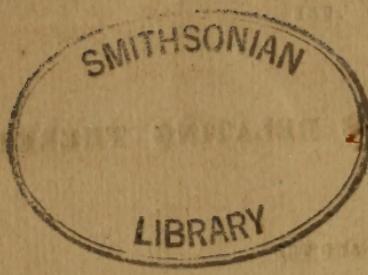
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WASHINGTON:

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PATENTS GRANTED BY THE UNITED STATES.

DEPARTMENT OF STATE,

Washington, 11th January, 1831.

SIR: I have the honor herewith to transmit to you, for the House of Representatives, a report prepared at this office, in pursuance of its resolution of 2d April, 1830, which you will be pleased to communicate to that House, together with the papers accompanying the same; and to be, with the highest respect,

Your obedient servant,

M. VAN BUREN,

The Hon. ANDREW STEVENSON,

Speaker of the House of Representatives.

DEPARTMENT OF STATE,

Washington, 3d January, 1831.

In pursuance of a resolution of the House of Representatives of the 2d April, 1830, directing this Department to communicate to that House "a list of all the patents granted by the United States for the encouragement of arts and sciences, alphabetically arranged, placing in consecutive order all patents for inventions and improvements relating to the same subject, designating the names of the persons to whom granted, their place of residence, and the dates of their patents, with an alphabetical list of the names of the patentees;" together with a digest of decisions relating to patents under the laws of the United States, made in the courts of the United States; the Secretary has the honor to submit, herewith, to the House of Representatives, the accompanying report of the Superintendent of the patent office, to whom the preparation of the lists required was referred, together with the several lists so prepared by him, or under his direction: and the Secretary has the honor, at the same time, to lay before the House, conformably with the remaining part of their resolution, a report from Doctor Thomas P. Jones, late Superintendent of the patent office, but now a clerk in this Department,

with the digest of decisions under the laws of the United States, made in the courts of the United States, in relation to patents for new and useful inventions.

Respectfully submitted,

M. VAN BUREN.

CONGRESS OF THE UNITED STATES.

In the House of Representatives, April 2d, 1830.

"Resolved, That the Secretary of State be directed to communicate to this House a list of all the patents granted by the United States for the encouragement of arts and sciences, alphabetically arranged, placing in consecutive order all patents for inventions and improvements relating to the same subject, designating the names of the persons to whom granted, their place of residence, and the dates of their patents, with an alphabetical list of the names of the patentees; and that three thousand copies of the said list be printed for the use of the House, under the direction of the Clerk; together with the public acts of Congress relating to patents, and a digest of decisions under the same, made in the courts of the United States."

PATENT OFFICE, December 10, 1830.

SIR: I have the honor to state that, in conformity to the above resolution, the following lists of patents and patentees have been compiled and arranged, it is hoped, in such a manner as to fulfil the conditions of the resolution.

The difficulty of classifying natural objects is well known—the gradual and imperceptible shades of difference rendering it impossible to determine exactly where one class should end, and another begin. In the productions of art, this difficulty is not diminished. Hence, in compiling the list of patents, a doubt frequently arose concerning the class to which some of the patents did properly belong. For instance, whether the partial rotting of hemp and flax should be classed under agriculture or chemistry: dry docks under navigation or landworks, &c. &c. Besides, many of the machines patented are applicable to purposes widely different, and consequently could not be embraced exclusively in any one class; while the titles of others are so indefinite as to render it impossible to determine either their *genera* or *species*. In such cases, no specific disposition being practicable, when the subject or patent sought is not found where it was expected, it will be discovered under some other title, to which the nature of the subject will generally refer.

Subjoined to each class, is an alphabetical list of its patentees. This mode was considered preferable to that of one continued list of all the names, as it affords much greater facility in finding the names of persons that have obtained patents on any proposed subject.

With great respect,

Yours, truly,

JOHN D. CRAIG.

Hon. MARTIN VAN BUREN,
Secretary of State.

WASHINGTON, January 1, 1831.

SIR: I have the honor herewith to submit to your examination a digest of the decisions under the patent laws of the United States. In executing the task which you have confided to me, I have endeavored to furnish a condensed view of all those points which most materially affect the interest of patentees, and to fulfil the intentions of the resolution of the House of Representatives of April 2d, 1830, by which such a digest was ordered to be made.

I have the honor to be,

Very respectfully,

Your most obedient servant,

THOS. P. JONES.

The Honorable M. VAN BUREN,
Secretary of State.

LAWS OF THE UNITED STATES RELATING TO PATENTS.

An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose.

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That, when any person or persons, being a citizen or citizens of the United States, shall allege that he or they have invented any new and useful art, machine, manufacture, or composition of matter, or any new and useful improvement on any art, machine, manufacture, or composition of matter, not known or used before the application, and shall present a petition to the Secretary of State, signifying a desire of obtaining an exclusive property in the same, and praying that a patent may be granted therefor, it shall and may be lawful for the said Secretary of State to cause letters patent to be made out in the name of the United States, bearing test by the President of the United States, reciting the allegations and suggestions of the said petition, and giving a short description of the said invention or discovery, and thereupon granting to such petitioner or petitioners, his, her, or their heirs, administrators, or assigns, for a term not exceeding fourteen years, the full and exclusive right and liberty of making, constructing, using, and vending to others to be used, the said invention or discovery, which letters patent shall be delivered to the Attorney General of the United States, to be examined, who, within fifteen days after such delivery, if he finds the same conformable to this act, shall certify accordingly at the foot thereof, and return the same to the Secretary of State, who shall present the letters patent thus certified to be signed, and shall cause the seal of the United States to be thereto affixed; and the same shall be good and available to the grantee or grantees, by force of this act, and shall be recorded in a book, to be kept for that purpose in the office of the Secretary of State, and delivered to the patentee, or his order.

SEC. 2. *Provided always, and be it further enacted,* That any person who shall have discovered an improvement in the principle of any machine, or in the process of any composition of matter, which shall have been patented, and shall have obtained a patent for such improvement, he shall not be at liberty to make, use, or vend the original discovery, nor shall the first inventor be at liberty to use the improvement; and it is hereby enacted and declared, that simply changing the form or proportions of any machine, or composition of matter, in any degree, shall not be deemed a discovery.

SEC. 3. *And be it further enacted,* That every inventor, before he can receive a patent, shall swear or affirm that he does verily believe that he is the true inventor or discoverer of the art, machine, or improvement, for which he solicits a patent, which oath or affirmation may be made before any person authorized to administer oaths, and shall deliver a written description of his invention, and of the manner of using, or process of compounding the same, in such full, clear, and exact terms, as to distinguish the same from all other things before known, and to enable any person skilled in the art or science of which it is a branch, or

with which it is most nearly connected, to make, compound, and use the same: and in the case of any machine, he shall fully explain the principle, and the several modes in which he has contemplated the application of that principle or character by which it may be distinguished from other inventions; and he shall accompany the whole with drawings and written references, where the nature of the case admits of drawings, or with specimens of the ingredients, and of the composition of matter, sufficient in quantity for the purpose of experiment, where the invention is of a composition of matter; which descriptions, signed by himself, and attested by two witnesses, shall be filed in the office of the Secretary of State, and certified copies thereof shall be competent evidence in all courts where any matter or thing, touching such patent right, shall come in question: and such inventor shall moreover deliver a model of his machine, provided the Secretary shall deem such model to be necessary.

SEC. 4. *And be it further enacted,* That it shall be lawful for any inventor, his executor or administrator, to assign the title and interest in the said invention at any time; and the assignee having recorded the said assignment in the office of the Secretary of State, shall thereafter stand in the place of the original inventor, both as to right and responsibility, and so the assignees or assigns, to any degree.

SEC. 5. *And be it further enacted,* That if any person shall make, devise, and use, or sell the thing so invented, the exclusive right of which shall, as aforesaid, have been secured to any person by patent, without the consent of the patentee, his executors, administrators, or assigns, first obtained in writing, every person so offending shall forfeit and pay the patentee a sum that shall be at least equal to three times the price for which the patentee has usually sold or licensed to other persons the use of the said invention; which may be recovered in an action on the case founded on this act, in the circuit court of the United States, or any other court having competent jurisdiction. [Repealed by the act of April 17th, 1800.]

SEC. 6. *Provided always, and be it further enacted,* That the defendant in such action shall be permitted to plead the general issue, and give this act, and any special matter of which notice in writing may have been given to the plaintiff or his attorney, thirty days before trial, in evidence, tending to prove that the specification filed by the plaintiff does not contain the whole truth relative to his discovery, or that it contains more than is necessary to produce the described effect, which concealment or addition shall fully appear to have been made for the purpose of deceiving the public, or that the thing thus secured by patent was not originally discovered by the patentee, but had been in use, or had been described in some public work, anterior to the supposed discovery of the patentee, or that he had surreptitiously obtained a patent for the discovery of another person: in either of which cases, judgment shall be rendered for the defendant, with costs, and the patent shall be declared void.

SEC. 7. *And be it further enacted,* That, where any State, before its adoption of the present form of government, shall have granted an exclusive right to any invention, the party claiming that right shall not be capable of obtaining an exclusive right under this act, but on relinquishing his right under such particular State; and of such relinquishment, his obtaining an exclusive right under this act shall be sufficient evidence.

SEC. 8. *And be it further enacted,* That the persons whose applications for patents were, at the time of the passing of this act, depending before the

Secretary of State, Secretary of War, and Attorney General, according to the act, passed the second session of the first Congress, entitled "An act to promote the progress of useful arts," on complying with the conditions of this act, and paying the fees herein required, may pursue their respective claims to a patent under the same.

SEC. 9. *And be it further enacted,* That, in case of interfering applications, the same shall be submitted to the arbitration of three persons, one of whom shall be chosen by each of the applicants, and the third person shall be appointed by the Secretary of State; and the decision or award of such arbitrators, delivered to the Secretary of State in writing, and subscribed by them, or any two of them, shall be final, as far as respects the granting of the patent: and if either of the applicants shall refuse or fail to choose an arbitrator, the patent shall issue to the opposite party. And where there shall be more than two interfering applications, and the parties applying shall not all unite in appointing three arbitrators, it shall be in the power of the Secretary of State to appoint three arbitrators for the purpose.

SEC. 10. *And be it further enacted,* That, upon oath or affirmation being made before the judge of the district court, where the patentee, his executors, administrators, or assigns, reside, that any patent which shall be issued in pursuance of this act was obtained surreptitiously, or upon false suggestion, and motion made to the said court within three years after issuing the said patent, but not afterwards, it shall and may be lawful for the judge of the said district court, if the matter alleged shall appear to him to be sufficient, to grant a rule, that the patentee, or his executor, administrator, or assign, show cause why process should not issue against him to repeal such patent; and if sufficient cause shall not be shown to the contrary, the rule shall be made absolute; and thereupon the said judge shall order process to be issued against such patentee, or his executors, administrators, or assigns, with costs of suit. And in case no sufficient cause shall be shown to the contrary, or if it shall appear that the patentee was not the true inventor or discoverer, judgment shall be rendered by such court for repeal of such patent; and if the party at whose complaint the process issued, shall have judgment given against him, he shall pay all such costs as the defendant shall be put to in defending the suit, to be taxed by the court, and recovered in due course of law.

SEC. 11. *And be it further enacted,* That every inventor, before he presents his petition to the Secretary of State, signifying his desire of obtaining a patent, shall pay into the Treasury thirty dollars, for which he shall take duplicate receipts; one of which receipts he shall deliver to the Secretary of State, when he presents his petition; and the money thus paid shall be in full for the sundry services to be performed in the office of the Secretary of State consequent on such petition, and shall pass to the account of clerk hire in that office: *Provided, nevertheless,* That, for every copy which may be required at the said office of any paper respecting any patent that has been granted, the person obtaining such copy shall pay at the rate of twenty cents for every copy sheet of one hundred words; and for every copy of a drawing, the party obtaining the same shall pay two dollars: of which payments, an account shall be rendered annually to the Treasury of the United States, and they shall also pass to the account of clerk hire in the office of the Secretary of State.

SEC. 12. *And be it further enacted,* That the act passed the tenth day of April, in the year one thousand seven hundred and ninety, entitled "An

act to promote the progress of useful arts," be, and the same is hereby, repealed: *Provided, always,* That nothing contained in this act shall be construed to invalidate any patent that may have been granted under the authority of said act: and all patentees under said act, their executors, administrators, or assigns, shall be considered within the purview of this act, in respect of the violation of their rights, provided such violations shall be committed after the passing of this act.

JONATHAN TRUMBULL,
Speaker of the House of Representatives.

JOHN ADAMS,

Vice President of the United States and President of the Senate.

Approved, February 21, 1793.

GEORGE WASHINGTON,

President of the United States.

An act to extend the privilege of obtaining patents for useful discoveries and inventions to certain persons therein mentioned, and to enlarge and define the penalties for violating the rights of patentees.

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That all and singular the rights and privileges given, intended, or provided, to citizens of the United States, respecting patents for new inventions, discoveries, and improvements, by the act entitled "An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose," shall be, and hereby are, extended and given to all aliens who, at the time of petitioning in the manner prescribed by the said act, shall have resided for two years within the United States; which privileges shall be obtained, used, and enjoyed, by such persons, in as full and ample manner, and under the same conditions, limitations, and restrictions, as by the said act are provided and directed in case of citizens of the United States: *Provided, always,* That every person petitioning for a patent for any invention, art, or discovery, pursuant to this act, shall make oath or affirmation before some person duly authorized to administer oaths, before such patent can be granted, that such invention, art, or discovery, hath not, to the best of his or her knowledge or belief, been known or used either in this or any foreign country; and that every patent which shall be obtained pursuant to this act for any invention, art, or discovery, which it shall afterwards appear had been known or used previous to such application for a patent, shall be utterly void.

SEC. 2. *And be it further enacted,* That, where any person hath made, or shall have made, any new invention, discovery, or improvement, on account of which a patent might, by virtue of this or the abovementioned act, be granted to such person, and shall die before any patent shall be granted therefor, the right of applying for and obtaining such patent shall devolve on the legal representatives of such person, in trust for the heirs at law of the deceased, in case he shall have died intestate; but if otherwise, then in trust for his devisees, in as full and ample manner, and under the same conditions limitations, and restrictions, as the same was held, or might have been claimed or enjoyed, by such person, in his or her lifetime: and when application for a patent shall be made by such legal representatives, the oath or affirmation provided in the third section of the beforementioned act shall be so varied as to be applicable to them.

SEC. 3. *And be it further enacted,* That, where any patent shall be, or shall have been granted pursuant to this or the abovementioned act, and any person, without the consent of the patentee, his or her executors, administrators, or assigns, first obtained in writing, shall make, devise, use, or sell the thing whereof the exclusive right is secured to the said patentee by such patent, such person so offending shall forfeit and pay to the said patentee, his executors, administrators, or assigns, a sum equal to three times the actual damage sustained by such patentee, his executors, administrators, or assigns, from or by reason of such offence; which sum shall and may be recovered by action on the case, founded on this and the abovementioned act, in the circuit court of the United States having jurisdiction thereof.

SEC. 4. *And be it further enacted,* That the fifth section of the abovementioned act, entitled "An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose," shall be, and hereby is, repealed.

THEODORE SEDGWICK,
Speaker of the House of Representatives.

THOS. JEFFERSON,

Vice President of the United States, and President of the Senate.

Approved, April 17, A. D. 1800.

JOHN ADAMS,
President of the United States.

An act to extend the jurisdiction of the circuit courts of the United States to cases arising under the law relating to patents.

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That the circuit courts of the United States shall have original cognizance, as well in equity as at law, of all actions, suits, controversies, and cases, arising under any law of the United States granting or confirming to authors or inventors the exclusive right to their respective writings, inventions, and discoveries; and, upon any bill in equity filed by any party aggrieved in any such cases, shall have authority to grant injunctions, according to the course and principles of courts of equity, to prevent the violation of the rights of any authors or inventors secured to them by any laws of the United States, on such terms and conditions as the said courts may deem fit and reasonable: *Provided, however,* That, from all judgments and decrees of any circuit courts rendered in the premises, a writ of error or appeal, as the case may require, shall lie to the Supreme Court of the United States, in the same manner, and under the same circumstances, as is now provided by law in other judgments and decrees of such circuit courts.

H. CLAY,
Speaker of the House of Representatives.

DANIEL D. TOMPKINS,

Vice President of the United States, and President of the Senate.

Approved, February 15, A. D. 1819.

JAMES MONROE,
President of the United States.

A DIGEST OF DECISIONS

UNDER THE LAWS OF THE UNITED STATES RELATING TO PATENTS FOR
NEW AND USEFUL INVENTIONS.

ON THE AFFIDAVIT.

1. The taking of the oath required by the patent act previous to the issuing of a patent is but a pre-requisite to the granting of the patent; and in no degree essential to its validity; and if not taken, still the patent is valid.

In the case of *Whittemore v. Cutter*, (1 Gallison's Rep. 429,) Judge Story observed, "The statute requires that the patentee shall swear 'that he is the true inventor or discoverer of the art, machine, or improvement.' The oath taken by *Whittemore* was, that he was the 'true inventor or improver of the machine.' The taking of the oath was but a pre-requisite to the granting of the patent, and in no degree essential to its validity. It might as well have been contended that the patent was void, unless the thirty dollars required by the 11th section of the act had been previously paid."

2. The affidavit may be referred to for the removal of obscurity in the specification.

In *Pettibone v. Derringer*, (C. C. U. S. P. October, 1818, M. S.) Judge Washington said that "there can be no doubt that when the construction of the patent and specification, as to the subject of the grant, is *doubtful*, the affidavit, if more precise, may be resorted to for explanation, and to remove ambiguity."

3. The oath required of an alien places him on grounds somewhat different from those of a citizen.

In *Morris v. Huntington*, (1 Paine's Rep. 353,) Judge Thompson, in reference to the proviso in the first section of the law of 1800, requiring aliens to swear that the invention has not been known or used in this or any foreign country, says that "it puts the alien on grounds somewhat different from those of a citizen, requiring an oath of something more than is required of a citizen." "It seems reasonable to restrict an alien in this manner from taking out a patent for what has been in use abroad, inasmuch as our own citizens could not patent a foreign invention."

ON THE DESCRIPTION OR SPECIFICATION.

4. The patentee must describe in his patent in what his invention consists, with reasonable certainty; otherwise, it is void for ambiguity.

In *Lowell v. Lewis*, (1 Mason's Rep. 189,) Judge Story says, "The law confers an exclusive patent right on the inventor of any thing new and useful, as an encouragement and reward for his ingenuity, and for the expense

and labor attending the invention. But this monopoly is granted for a limited term only, at the expiration of which the invention becomes the property of the public. Unless, therefore, such a specification be made as would, at all events, enable other persons of competent skill to construct similar machines, the advantage to the public, which the act contemplates, would be entirely lost, and its principal object would be defeated. It is not necessary, however, that the specification should contain an explanation level with the capacities of every person, (which would perhaps be impossible,) but, in the language of the act, it should be expressed in such full, clear, and exact terms, that a person skilled in the art or science of which it is a branch would be enabled to construct the patented invention."

In *Sullivan v. Redfield*, (1 Paine, 450,) Judge Thompson observes, "Both the policy and the language of the act of Congress require that the specification should be clear, plain, and intelligible, so that others may be taught by it to make or do the thing for which the patent is granted."

5. Under the patent act, no defect or concealment in any specification is sufficient to avoid a patent, unless it be with intent to deceive the public.

In *Gray and Osgood v. James et al.*, (1 Peters' C. C. Rep. 401,) Judge Washington said, "But, if the jury should be of opinion that the specification is materially defective, the objection will not be sufficient to invalidate the plaintiff's patent, unless they should also be satisfied that the concealment of the circumstances not described was intended to deceive the public. What degree of evidence ought to be required to prove such fraudulent intention, must rest with the jury to decide. Positive evidence can seldom be expected, nor is it necessary. The law, it is true, requires that such intention should fully appear; but still it may be presumed from circumstances entirely to the satisfaction of the jury, which would be sufficient to authorize them to find the fact." For similar opinions, see also *Lowell v. Lewis*, (1 Mason, 190,) and *Whittemore v. Cutter*, (436.)

6. When a patent is taken out for an improvement, the specification ought to describe what the improvement is; and the patent should be limited to such improvement.

In *Woodcock v. Parker et al.*, (1 Gallison, 439,) Judge Story directed the jury as follows: "If the machine for which the plaintiff obtained a patent substantially existed before, and the plaintiff made an improvement only therein, he is entitled to a patent for such improvement only, and not for the whole machine; and under such circumstances, as this present patent is admitted to comprehend the whole machine, it is too broad, and therefore void."

In *Whittemore v. Cutter*, (1 Gallison, 480,) Judge Story observes, in his directions to the jury, "that, where a specific machine exists, producing certain effects, if a mere addition is made to such a machine, *to produce the same effects* in a better manner, a patent cannot be taken for the whole machine, but for the improvement only. In like manner, if to an old machine some new combinations be added to produce *new effects*, the right to a patent is limited to the new combinations."

In *Barrett et al. v. Hall et al.*, (1 Mason, 475,) Judge Story says, "If a patent be for an improved machine, or for an improvement of a machine, (for I

follow Mr. Justice Heath and the Supreme Court in thinking that the meaning of the terms is substantially the same,) then the patent must state in what the improvement specifically consists, and it must be limited to such improvement. If, therefore, the terms be so obscure or doubtful that the court cannot say what is the particular improvement which the patentee claims, and to what it is limited, the patent is void for ambiguity; and if it covers more than the improvement, it is void for another reason—that it is broader than the invention.”

“Further: where a combination of machinery already exists up to a certain point, and the patentee makes an addition or improvement to the machinery, he must confine his patent to the improvement; for, if he takes a patent for the whole machine, not distinguishing between the new and old, nor limiting his patent to the improvement, it is void, because, as so claimed, it is not his invention.”

A contrary opinion, it appears, was entertained by Judge Livingston: in the case of *Goodyear v. Matthews*, (1 Paine, 300,) he gives it as his opinion, that a patent for an entire machine is valid, although the invention consists only of an improvement on such machine. His words are, “If a patent be taken out for an entire machine, when the invention consists only of an improvement on such machine, it is said by the defendant’s counsel that the whole patent is void: this, gentlemen, is not the opinion of the court; for, although a patent be obtained for more than the improvement, the patentee is not entitled to more than his improvement; nor is he at liberty to make, use, or vend the original discovery, or to prosecute any person who shall use such original discovery without engrafting on it the improvement invented by the patentee.”

This opinion does not appear to have been sustained by any other Judge in the cases which have been reported. Those given in *Woodcock v. Parker*, *Whittemore v. Cutter*, and *Barrett v. Hall*, are directly adverse, and there are several others of the same tenor. In *Lowell v. Lewis*, (1 Mason, 187,) Judge Story says, “I accede at once to the doctrine of the authority which has been cited, that the patentee is bound to describe in full and exact terms in what his invention consists; and if it be an improvement only upon an existing machine, he should distinguish what is new and what is old in his specification, so that it may clearly appear for what the patent is granted.”

“The patentee is clearly not entitled to include in his patent the exclusive use of any machinery already known; and if he does, his patent will be broader than his invention, and consequently void. If, therefore, the description in the patent mixes up the old and the new, and does not distinctly ascertain for which, in particular, the patent is claimed, it must be void; since, if it covers the whole, it covers too much; and, if not intended to cover the whole, it is impossible for the court to say what, in particular, is covered as the new invention.” “It is however, sufficient, if what is claimed as new appear with reasonable certainty on the face of the patent, either expressly or by necessary implication.” In the case of *Evans v. Eaton*, (1 Peters’ C. C. Rep. 342,) Judge Washington charged the jury, that “the grant can only be for the discovery as recited and described in the patent and specification. If the grantee is not the original discoverer of the art or machine for which the grant is made, the whole is void. If, therefore, the patent be for the whole of a machine, and the discovery was only of an improvement, the patent is void.” In *Sullivan v. Redfield*, (1 Paine, 450,) Judge Thompson says, “This specification is obviously broader than the patent: the latter is

for an improvement in the steam tow-boat; the former contains a description of the steam tow-boat itself, of which the complainant claims to be the inventor, according to his specification. The patent and specification are connected together, and dependent on each other for support." Numerous other cases might be adduced, in which opinions have been given which go to sustain the foregoing rule, the correctness of which seems to have been impeached only in one instance.

7. Where a patent is for several improvements in a machine, and each improvement is summed up in the patent as the invention of the patentee, if any one of the improvements is found not to be new, his patent is void.

This rule was laid down by Judge Story, in *Moody v. Fisk et al.*, (2 Mason, 112.) He observes that, "Where a patentee, in his specification, states and sums up the particulars of his invention, and his patent covers them, he is confined to such summary; and he cannot afterwards be permitted to sustain his patent, by showing that some part which he claims in his summing up as his invention, though not in fact his invention, is of slight value or importance to his patent. His patent covers it, and, if it be not new, the patent must be void."

8. Where several improvements in a machine are distinctly claimed in a patent, an action lies for the piracy of any of the improvements, although the defendants have not used the whole of the improvements.

In the case last cited, Judge Story said, "But after a good deal of reflection on it, I have come to the result, that, where the plaintiff claims, as in this case, several distinct and independent improvements in the same machine, and procures a patent for them in the aggregate, he is entitled to recover against any person who shall use any one of the improvements so patented, notwithstanding there has been no violation of the other improvements. In such a case, the patent goes for the whole of the improvements; and if each be new, and claimed distinctly in the patent as such, there does not seem any good reason why the party who pirates any part of the invention should not be liable in damages."

ON THE ORIGINALITY OF THE INVENTION.

9. The first inventor who has put the invention in practice, and he only, is entitled to a patent. Every subsequent patentee, although an original inventor, may be defeated of his patent right, upon proof of such prior invention put in actual use. The law in such case adopts the rule, qui prior est in tempora, potior est in jure.

In order to defeat a subsequent patent, it is not necessary to prove that the invention has been in general use, and generally known. It is sufficient if the same invention has been previously known, and put in actual use, however limited the use or the knowledge of the invention might have been.

In *Bedford v. Hunt et al.*, (1 Mason, 302,) Judge Story charged the jury that "The intent of the statute was to guard against defeating patents, by the setting up of a prior invention, which had never been reduced to practice. If it were the mere speculation of a philosopher or a mechanician, which had never been tried by the test of experience, and never put into actual ope-

ration by him, the law would not deprive a subsequent inventor, who had employed his labor and his talents in putting it into practice, of the reward due to his ingenuity and enterprise. But if the first inventor reduced his theory to practice, and put his machine or other invention into use, the law never could intend that the greater or less use in which it might be, or the more or less widely the knowledge of its existence might circulate, should constitute the criterion by which to decide upon the validity of any subsequent patent for the same invention. I hold it, therefore, to be the true interpretation of this part of the statute, that any patent may be defeated by showing that the thing secured by the patent had been discovered and put in actual use prior to the discovery of the patentee, however limited the use or the knowledge of the prior discovery might have been."

In the case of *Evans v. Eaton*, (1 Peters' C. C. R. 342) Judge Washington says, "The discovery must be not only useful, but *new*; it must not have been known or used before in any part of the world." "It is contended by the plaintiff's counsel, that the title of the patentee cannot be impeached, unless it is shown that he knew of a prior discovery of the same art, machine, &c., and that *true* and *original* are synonymous in the intention of the legislature.

"As it is not pretended that *true* and *original* mean the same thing in common parlance, I proceed to inquire whether the legislature intended to use them as such. As to this there can scarcely be two opposed opinions. The first section, referring to the allegations of the applicant for a patent, speaks of the discovery as something *not known or used before the application*; and in the sixth section, it is declared, that the defendant may give in evidence that the thing secured by patent was not *originally* discovered by the patentee, but had been in use, or had been described in some public work, *anterior to the supposed discovery*. Now if *original* does not mean *first*, the preceding expressions, in the first and sixth sections, most certainly do."

This case was carried up to the Supreme Court by a writ of error, and, in its final decision, the foregoing opinions confirmed. (See 3 Wheaton's S. C. R.) The opinion of the court was delivered by Ch. J. Marshall, who says, "It may be that the patentee had no knowledge of this previous use or previous description; still his patent is void: the law supposes he may have known it, and the charge of the judge, which must be taken as applicable to the testimony, goes no farther than the law."

• ON THE OBTAINING OF TWO SEPARATE PATENTS FOR THE SAME INVENTION

10. *An inventor cannot, under the patent laws of the United States, have two subsisting valid patents at the same time for the same invention. The first that he obtains, while it remains unrepealed, is an estoppel to any future patent for the same invention, founded upon the general patent act.*

In the case of *Odiorne v. The Amesbury Nail Factory*, (2 Mason, 28,) Judge Story said, "It cannot be that a patentee can have in use at the same time two valid patents for the same invention; and if he can successively take out at different times new patents for the same invention, he may perpetuate his exclusive right during a century, whereas the patent act confines this right to 14 years from the date of the first patent. If this proceeding could obtain countenance, it would completely destroy the whole considera-

tion derived by the public for the grant of the patent, viz: the right to use the invention at the expiration of the term specified in the original grant. I hold it to be the necessary conclusion of law, that the inventor can have but a single valid patent for his invention; and that the first he obtains, while it remains unrepealed, is an estoppel to any future patent for the same invention, founded upon the general patent act. The public have by the first patent acquired an inchoate interest, which cannot be defeated by any merely ministerial act of the officers of the Government."

In the case of *Morris v. Huntington*, (1 Paine, 348,) a similar opinion was given by Judge Thompson. He says, "The next question is, whether it is not a valid objection to the second patent, that the patentee has a prior patent for the same thing, not surrendered, repealed, or declared void."

"I think this objection insurmountable. A prior patent must be got rid of before a second can be taken out. Why should a second patent be taken out before a prior one is avoided, although invalid, if the patentee is enjoying the full benefit of it."

ON PATENTS SURRENDERED, OR DECLARED VOID.

11. *The obstacle of an invalid patent may be removed by having a vacatur entered, ex parte, in the Department of State, on the surrender of the patent; but on surrendering a patent, and taking out a new one, the latter should be only for the unexpired part of the 14 years since obtaining the first patent.*

The foregoing is not to be considered as a point ruled, but merely as a suggestion of the court. In the case of *Morris v. Huntington*, (1 Paine, 355,) Judge Thompson uses the following language:

"Besides, I see no insuperable objection to entering a *vacatur* of the patent of record in the Department of State, if taken out inadvertently and by mistake. All the proceedings in that Department on the subject of patents are *ex parte*, except in the case of interfering applications. The Department act rather ministerially than judicially, and upon the representation of the applicant, without entering into the question of right; and there seems to be no good reason why, on a like *ex parte* application, the patent may not be surrendered, and cancelled of record, if no misconduct be imputable to the patentee in taking it out. And in such case, as the exclusive right is not to exceed 14 years, the second patent may be limited according to circumstances, and thereby secure both to the patentee and the public their respective rights."

The case which gave rise to this suggestion was tried in New York, in April term, 1824; and since that period, a considerable number of patents have been surrendered, and new ones issued, with amended specifications, for the unexpired part of the 14 years. The question, however, of the validity of a patent thus re-issued, has never been finally settled. In the last May term (1830) of the circuit court, held in the city of New York, the same question was raised in the case of *Townsend and Grant v. Raymond*, and the judges differing in opinion on the subject, it was determined to carry the case before the Supreme Court at Washington. This point, therefore, will probably be settled at an early day.

Connected with this question is another, which, it is believed, remains in a similar unsettled state, namely, whether a new patent can be taken out

where a former one has been declared void under the sixth section of the act of 1793.

In a case before quoted, (*Morris v. Huntington*,) Judge Thompson observes, that "Whether, after the first patent has been declared void, after verdict under the sixth section, in a case free of fraud, a new patent can be taken out, is a question which does not here arise. But I am inclined to think that a surrender of the prior patent might be made, and that the Secretary of State might grant a new one, under a statement of the circumstances, although not for the period of fourteen years from the date of the second patent, as the patentee has enjoyed the exclusive right for a part of the fourteen years."

In the case of *Barrett v. Hall*, (1 Mason, 473,) Judge Story makes the following remark: "I have very great doubts, whether, when a patent is once granted to any person for an invention, he can legally acquire any right, under a subsequent patent, for the same invention, unless his first patent be repealed for some original defect, so that it might truly be said to be a void patent.

ON WHAT CONSTITUTES AN ABANDONMENT OF A RIGHT TO A PATENT.

12. *An inventor may abandon his invention, and surrender it to the public. This inchoate right, once gone, cannot afterwards be resumed at pleasure.*

The question has been frequently agitated, whether an inventor could sustain a claim to a patent which he had obtained after having allowed his invention to go into public use. In the case of *Morris v. Huntington*, (1 Paine, 345,) Judge Thompson observes, that "No man is permitted to lie by for years, and then take out a patent. If he has been practising his invention with a view of improving it, and thereby rendering it a greater benefit to the public, before taking out his patent, that ought not to prejudice him. But it should always be a question submitted to the jury, what was the intent of the delay of the patent, and whether allowing the invention to be used without a patent should not be considered as an abandonment, or present of it to the public."

There are several cases upon record in which similar opinions were expressed by the court; but this question was finally brought before the Supreme Court, on a writ of error to the circuit court for the eastern district of Pennsylvania, in January term, 1829, in the case of *Pennock and Sellers vs. Dialogue*. (2 Peters' S. C. R. 1.) The plaintiffs had instituted their suit against the defendant for an infringement of a patent right for "an improvement in the art of making tubes or hose, for the conveying of air, water, and other fluids." The invention claimed by the patentees was the mode of making the hose, by rivetting the seams together, so that they would be tight, and as capable of resisting pressure as any other part of the machine.

From the evidence given in the circuit court, it appeared that the invention was completed in 1811, but that the letters patent were not obtained until 1818; and that, in the interval, upwards of thirteen thousand feet of the hose were made and sold by an individual who had been instructed in the mode of making, and permitted to sell it by the inventors. It was not alleged on the part of the plaintiffs, that, during the period which had elapsed, the manufacture had undergone any important modification or improvement; but they claimed that all the hose which had been made and sold had been so made and sold under their permission.

Upon the whole evidence of the case, the circuit court, by Judge Washington, charged the jury as follows: "We are clearly of opinion, that, if an inventor makes his discovery public, looks on, and permits others freely to use it without objection, or assertion of claim to the invention, of which the public might take notice, he abandons the inchoate right to the exclusive use of the invention, to which a patent would have entitled him, had it been applied for before such use. And we think it makes no difference in the principle, that the article so used, and afterwards patented, was made by a particular individual, who did so by the private permission of the inventor. As long as an inventor keeps to himself the subject of his discovery, the public cannot be injured; and even if it be made public, but accompanied by an assertion of the inventor's claim to the discovery, those who should make or use the subject of the invention would at least be put upon their guard. But if the public, with the knowledge and tacit consent of the inventor, is permitted to use the invention without opposition, it is a fraud upon the public afterwards to take out a patent."

Upon this charge the jury gave a verdict for the defendant.

The Supreme Court, in reviewing the above case, considered the only question before them to be, "Whether the charge of the court was correct in point of law:" and Mr. Justice Story, in delivering the opinion of the Supreme Court, observed, that "it has not been, and indeed cannot be, denied, that an inventor may abandon his invention, and surrender or dedicate it to the public. This inchoate right, thus once gone, cannot afterwards be resumed at his pleasure; for when gifts are once made to the public in this way, they become obsolete." "The question which generally arises at trials is a question of fact, rather than of law—whether the acts or acquiescence of the party furnish, in the given case, satisfactory proof of an abandonment or dedication of the invention to the public."

The facts stated in the charge of the court, it is observed, are not to be reviewed independently of statutable provisions—the proper exposition of the patent law being necessary to the correct answer to any such inquiry. The constitution gave to Congress power "to promote the progress of science and the useful arts, by securing, *for limited times*, to authors and inventors, the exclusive right to their respective writings or discoveries." The limited time, it is observed, was fixed by the act of 21st February, 1793, which also prescribes the terms and conditions which must be strictly complied with. The thing to be patented is to be such as was "not known or used before the application;" and the patent is granted "for a term *not exceeding fourteen years*," and "gives the full and exclusive right of *using, and vending to others to be used*, the said invention or discovery." A defendant charged with having infringed a patent may plead "that the thing was not originally discovered by the patentee, *but had been in use*, or had been described in some public work, anterior to the supposed discovery by the patentee."

These clauses of the act of 1793 were considered as materially bearing upon the question before the court. The words, *not known or used before the application*, it is observed, "cannot mean that the thing invented was not known or used before the application by the inventor himself; for that would be to prohibit him from the only means of obtaining a patent. The use as well as the knowledge of the invention must be indispensable to enable him to ascertain its competency to the end proposed, as well as to perfect its component parts. The words, then, to have any rational inter-

pretation, must mean, not known or used by others before the application. But how known or used? If it were necessary, as it well might be, to employ others to assist in the original structure or use by the inventor himself, or if, before the application for a patent, his invention should be pirated by another, or used without his consent, it can scarcely be supposed that the legislature had within its contemplation such knowledge or use."

"We think the true meaning must be, not known or used by the public before the application; and thus construed, there is much reason for the limitation thus imposed by the act." "If an inventor should be permitted to hold back from the knowledge of the public the secrets of his invention; if he should, for a long period of years, retain the monopoly, and make and sell his invention publicly, and thus gather the whole profits of it, relying upon his own superior skill and knowledge of the structure; and then, and then only, when the danger of competition should force him to secure the exclusive right, he should be allowed to take out a patent, and thus exclude the public from any further use than what should be derived under it during his fourteen years, it would materially retard the progress of science and the useful arts, and give a premium to those who should be least prompt to communicate their discoveries."

The opinion then notices the similarity of the provisions of the patent law of England, and that of the United States, as respects the requirement that the thing patented should be new; and, in the practice under the English law, cites the case of *Wood v. Zimmerman*, (1 Holt's N. P. Rep. 58,) where the inventor suffered the thing invented to be sold, and go into public use, for four months before the grant of his patent; when it was held by the court, that, on this account, the patent was utterly void. Lord Chief Justice Gibbs said, "The *public sale* of that which is afterwards made the subject of a patent, *though sold by the inventor only*, makes the patent void." It is then observed, that, although the words of our statute are not identical with that of England, yet their structure is so similar as to render it evident that they were in the contemplation of the framers of it. The hardship, it is said, which a particular construction of the words may be thought to import, cannot be made the rule of their interpretation. "If an invention is used by the public, with the consent of the inventor, at the time of his application for a patent, how can the court say that his case was, nevertheless, such as the act was intended to protect. If such a public use of it is not a use within the meaning of the statute, what other use is? If it be a use within the meaning of the statute, how can the court extract the case from its operation, and support a patent where the suggestions of the patentee are not true, and the conditions on which alone the grant was authorized to be made do not exist?"

The operation of laws having similar objects, the policy of bringing inventions into early use, and the fair construction of the words of the statute, are all considered as sustaining the opinion given, and manifesting the will of the legislature—a will which the court were bound to obey.

"It is admitted that the subject is not wholly free from difficulties; but, upon the most deliberate consideration, we are all of opinion that the true construction of the act is, that the first inventor cannot acquire a good title to a patent, if he suffers the thing invented to go into public use, or to be publicly sold for use, before he makes application for a patent. His voluntary act, or acquiescence in the public sale or use, is an abandonment of his

right, or rather creates a disability to comply with the terms and conditions on which alone the Secretary of State is authorized to grant him a patent."

"The opinion of the circuit court was, therefore, perfectly correct, and the judgment is confirmed, with costs."

13. *Our patent act differs from the English in several respects; a mere public use by others before taking a patent, on a sale thereof by the inventor, is not decisive against him here, as in England.*

In the case of *Mellus v. Silsbee*, (4 Mason, 108,) Judge Story notices the difference between the language and effect of our statute, and that of England. The English statute provides for the granting of patents for "the sole working or making of any manner of new manufactures *within this realm*, to the true and first inventor, and of such manufactures which others at the time of making such letters patent and grant, shall not use." Upon which it has been there held, "that the public sale of it by the inventor to other persons for use, makes the patent void. It is not then new to the realm, but is used by others, within the meaning of the statute."

"Our patent act," Judge Story observes, "uses language somewhat different. The first section declares that 'when any person or persons, &c. shall allege that he or they have invented any new and useful art, machine, manufacture, or composition of matter, not known or used before the application,' he or they shall be entitled to a patent. If this were all, there would be great difficulty in construing the words 'not known or used before the application' differently from the words of the English statute, 'which others, at the making of the letters patent and grant, shall not use.' But the sixth section of our statute throws light on this subject, and enables the court to ascertain with more precision the intention of the legislature. That section authorizes the defendant to give certain matters in evidence, by way of defence, under the general issue, upon proper notice; and among other things, 'that the thing secured by patent was not originally discovered by the patentee, but had been in use, or had been described in some public work, anterior to the supposed discovery of the patentee.' Upon these clauses, it has been uniformly held, that it must be shown that the invention is new, not only in the United States, but to the world; and that it was not in use before the asserted discovery. The fact of its being *in use* before his discovery, is, by the sixth section, made decisive against the patentee. Now, if the intention of the legislature had been, by the first section, to provide that the mere fact of the invention being 'known or used,' even with the inventor's permission, before the *application* for a patent, should destroy his right, however otherwise well founded, it is strange that the use should be limited in the 6th section to the time of such *application*, instead of the 'supposed discovery.' The sixth section manifestly proceeds upon the ground that the same thing being in use at the time of the supposed discovery, establishes that there is nothing new in the invention; but it may be known and used at the time of the application for a patent, and yet the applicant have been the true and first discoverer. And the words of the first section are susceptible of the same construction. The thing sought to be patented must be something 'not known or used' by others before, but must be *first* known or *first* used by the person claiming to be the inventor; that is, others must not have known or used it before his discovery. Upon any other construction, if a party were the true and first inventor, yet if, before his application for a patent, another were to know his inven-

tion or use it, piratically or innocently, the first inventor would be ousted of his right to a patent, which is inconsistent with the spirit of the act. Construing, therefore, the first section by the sixth, it seems to me that the true meaning is, that the first inventor has a right to a patent, though there may have been a knowledge and use of the thing invented, by others, before his application for a patent, if such knowledge or use was not anterior to his discovery."

ON THE ACCEPTATION OF THE WORD PRINCIPLE, AS APPLIED TO A MACHINE.

14. *A patent for a machine to effect a particular object, as, for example, "for an improvement in the art of making nails, by means of a machine which cuts and heads the nail at one operation," is not a grant of an abstract principle, nor is it the grant of the different parts of any machine, but of an improvement applied to a particular use, effected by a combination of various mechanical powers to produce a new result.*

In the case of Gray and Osgood *v.* James *et al.*, (1 Peters' C. C. R. 400,) Judge Washington says, "The next reason assigned against the validity of the plaintiffs' patent, is, that it is too broad; or, if it is not so, that it is for a principle merely."

"The court is of the opinion that there is not the slightest foundation for this objection. The patent is supposed to be for the machine itself, which is composed of parts which have long become public property. This is not the fact. The patent is for an improvement in the art of making nails by means of a machine which cuts and heads the nails at one operation. It is, therefore, not the grant of an abstract principle; nor is it the grant of the different parts of any machine, but an improvement applied to a practical use, effected by a combination of various mechanical powers to produce a new result. The lever, the vice, the cutters, the dies, &c., may be used by any person without a violation of the plaintiffs' patent. But they cannot be used in their combined state, to produce, by the same operation, the same result, which is the distinguishing characteristic of the plaintiffs' machine, without a license from the owners."

In the case of Whittemore *v.* Cutter, (1 Gallison, 480,) Judge Story, in his direction to the jury, says, "that a patent can in no case be for an effect only, but for an effect produced in a given manner, or by a peculiar operation. For instance, no patent can be obtained for the admeasurement of time or the expansive operation of steam, but only for a new mode, or new application of machinery, to produce these effects; and therefore, if new effects are produced by an old machine in its unaltered state, I apprehend that no patent can be legally supported; for it is a patent for an effect only."

"By the principles of a machine (as these words are used in the statute) is not meant the original elementary principles of motion, which philosophy and science have discovered, but the *modus operandi*, the peculiar device, or manner of producing any given effect. The expansive powers of steam and the mechanical powers of wheels have been understood for many ages; yet a machine may well employ either the one or the other, and yet be so entirely new in its mode of applying these elements as to entitle the party to a patent for his whole combination. The intrinsic difficulty is to ascertain, in complicated cases like the present, the exact boundaries between what was known and used before, and what is new, in the *mode of operation.*"

In the case of *Barrett et al. v. Hall et. al.*, (1 Mason, 470,) Judge Story, in his charge to the jury, says, "As to the opinion of skilful witnesses, whether the principles of two machines are the same, no person doubts that it is competent evidence to be introduced into a patent cause. But care should be taken to distinguish what is meant by a principle. In the minds of some men, a principle means an elementary truth or power, so that, in the view of such men, all machines which perform their appropriate functions by motion, in whatever way produced, are alike in principle, since motion is the element employed. No one, however, in the least acquainted with law, would for a moment contend that a principle in this sense is the subject of a patent; and if it were otherwise, it would put an end to all patents for all machines which employed motion; for this has been known as a principle, or elementary power, from the beginning of time. The true legal meaning of the principle of a machine, with reference to the patent act, is the peculiar structure or constituent parts of such machine. And in this view, the question may be very properly asked, in cases of doubt or complexity, of skilful persons, whether the principles of two machines be the same or different? Now, the principles of two machines may be the same, although the form or proportions may be different. They may substantially employ the same power in the same way, though the external mechanism be apparently different. On the other hand, the principles of two machines may be very different, although their external structure may have great similarity in many respects."

ON THE INTENTION OF THE TERM "USEFUL INVENTION."

15. *The law allows a party a patent for a new and useful invention; and by "useful invention" is meant, not an invention in all cases superior to the modes now in use for the same purpose, but useful in contradistinction to frivolous or mischievous inventions.*

In the case of *Lowell v. Lewis*, (1 Mason, 186,) Judge Story, in his charge to the jury, said, "All that the law requires is, that the invention should not be frivolous or injurious to the well being, good policy, or sound morals of society. The word *useful*, therefore, is incorporated into the act in contradistinction to mischievous or immoral. For instance, a new invention to poison people, or to promote debauchery, or to facilitate private assassination, is not a patentable invention; but if the invention steers wide of these objections, whether it be more or less useful, is a circumstance very material to the interests of the patentee, but of no importance to the public."

A similar opinion will be found in *Bedford v. Hurd et al.*, (1 Mason, 303.)

16. *An invention of an ornamental mode of putting up thread, which gave it no additional value, but merely made it sell more readily at retail, and for a larger price, was held not useful within the meaning of the patent law.*

In the case of *Langdon v. De Groot*, (1 Paine 204,) Judge Livingston, in his charge to the jury, said, "To what extent an invention must be useful, to render it the subject of a patent, will depend upon the particular circumstances of each case, and for which no general rule can be given; but all will agree that it must, in some small measure at least, be beneficial to the com-

munity; and when it becomes a matter of inquiry whether its benefits are of sufficient consequence to be protected by the arm of government, it may be proper to leave such question with the jury."

"But when the objection raised is, that the invention, on the plaintiff's own showing, is not only of no use, but an imposition on the public, it may be doubted whether a court transcends its prescribed limits in taking upon itself, as was done here, a decision of it."

"The invention is for folding the thread and floss cotton in a manner a little different from the ordinary mode, in which form the cotton will sell quicker and higher by 25 per cent. than the same cotton put up in the ordinary way. The cotton thus folded is imported from the manufactory of Holt, in England; the article itself undergoes no change; and the whole of the improvement, for it is a patent for an improvement, consists in putting up skeins of it, perhaps of the same size in which they are imported, decorated with a label and a wrapper, thus rendering their appearance somewhat more attractive, and inducing the unwary not only to give it a preference to other cotton of the same fabric, quality, and texture, but to pay an extravagant premium for it. When stripped of these appendages, which must be done before it is used, the cotton is no better, in any one respect, than that of Holt's, retailed in the way put up by him. All this came out on the plaintiff's own testimony."

"Now, that such a contrivance, (for with what propriety can it be termed a useful art within the meaning of the constitution?) may be beneficial to a patentee, if he can exclude from the market all other retailers of the same article, will not be denied; and if to protect the interest of a patentee, however frivolous, useless, or deceptive, his invention may be, were the sole object of the law, it must be admitted that the plaintiff has made out a satisfactory title to his patent."

ON A JOINT PATENT FOR A JOINT INVENTION, AND ON JOINT AND SEVERAL PATENTS FOR THE SAME INVENTION.

17. There may be a joint patent for a joint invention; but a joint patent cannot be sustained on a sole invention.

In the case of *Barrett v. Hall*, (1 Mason, 472,) Judge Story says, "A joint patent may well be granted upon a joint invention. There is no difficulty in supposing, in point of fact, that a complicated invention may be the gradual result of the combined mental operations of two persons acting together, *pari passu*, in the invention; and if this be true, then, as neither of them could justly claim to be the sole inventor, in such a case it must follow that the invention is joint, and that they are jointly entitled to a patent; and so are the express words of the patent act, which declares that if any person or persons shall allege that he or they have invented, &c., a patent shall be granted to him or them for the invention."

"In the next place, a joint patent cannot be sustained upon a sole invention of either of the patentees; for the patent act gives no right to a patent, except to the inventor, and requires an oath from the party who claims the patent that he is the true inventor."

18. The same persons cannot, at the same time, hold, jointly and severally, valid patents for the same invention.

In the case last cited, the rule is laid down, that "a joint patent for an

invention is utterly inconsistent with several patents for the same invention by the same patentees; for it is impossible that any person can be at the same time the joint and sole inventor of the same invention. If, therefore, each of the joint patentees obtain a several patent for the same invention, as his own exclusive invention, and afterwards, without surrendering the first patent, they obtain a joint patent for the same as a joint invention, either the former sole patents are void, or the joint patent is void. For, besides the apparent inconsistency of the patents, if all could be sustained, then a recovery upon the joint patent would be no bar to a suit upon the several patents, and the parties might obtain a double recompense for the same infringement. There is an additional reason, which deserves great consideration; and that is, that, if sole and joint patents could be sustained by the same parties for the same invention, they might be successively taken out, so that the term of the exclusive right might be prolonged for a great length of time, instead of being limited to fourteen years."

ON THE RENEWAL OF A PATENT AFTER THE EXPIRATION OF ITS TERM.

19. *The term for which a patent is granted may be extended by an act of Congress.*

In the case of *Evans v. Eaton*, (1 Peters' C. C. R. 337,) Judge Washington says, "It is not true that the grant of an exclusive privilege to an invention for a limited time implies a binding and irrevocable contract with the people, that, at the expiration of the period, the invention shall become their property. The State has a perfect right to renew the grant at the end of the period, or to refuse to do so; and, in the latter case, it is a matter of course, that the invention may be used by any person who chooses to do so. In like manner may Congress renew a patent right, or decline to do so."

ON THE TRANSFER OF A PATENTEE'S RIGHT BY ASSIGNMENT.

20. *An assignment, in order to entitle the assignee of the patent right to sue in his own name alone, must be an assignment of the whole right.*

Under the patent law of 1793, an inventor or discoverer may transfer his right before a patent has issued, and the assignee may take out a patent; or the inventor or discoverer may take out a patent, and assign it afterwards. But to enable the assignee to "stand in the place of the original inventor," the whole right must be assigned.

In the case of *Tyler et al. v. Tuel*, (6 Cranch, 324,) the plaintiffs proved an assignment to them of the right of a certain patent, with the exception of four counties in the State of Vermont, which were named in the assignment. The case was taken up to the Supreme Court from the circuit court of Vermont. This court decided "that the plaintiffs, by their own showing, are not legal assignees to maintain this action."

21. *A patentee of an invention cannot maintain a suit, after he has made an assignment, for any violation of a patent, but the suit must be brought by the assignee.*

In the case of *Herbert v. Adams*, (4 Mason, 15,) it appeared in evidence that the plaintiff had made an assignment of his invention a few days previously to taking out his patent; and that the assignment was duly recorded in the Department of State. Judge Story said, "Under these circumstances, I

think the present suit cannot be maintained. The suit should have been brought in the name of the assignee. The assignment is not void by being executed before the invention was patented. It was a good transfer of the right of the patentee immediately upon his obtaining the patent, and he would be estopped to set up any adverse title. The subsequent infringement, if any, was a violation of the right of the assignee, not of the inventor; for, by the fourth section of the patent act, after an assignment is recorded, the assignee stands in the place of the original inventor, both as to right and responsibility."

22. If a patentee has sold out a moiety of his patent right, a joint action lies by himself and his assignee for a violation of it.

This rule was laid down in the case of *Whittemore v. Cutter*, (1 Gallison, 430.) Judge Story said, "The statute gives to the assignee all the right and responsibility which the original inventor had in the undivided portion of the patent which is conveyed; and an action may well be maintained by all the parties, who, at the time of the infringement, are the holders of the whole title and interest."

23. A patentee is entitled to recover for a violation of his patent, excepting he has actually completed his assignment.

In the case of *Park v. Little & Wood*, (3 Washington's C. C. R. 197,) Judge Washington charged the jury that "the plaintiff is entitled to recover at law, no matter what private agreement subsists between him and any other person, unless he has made a legal assignment and transfer of his interest in the invention."

ON THE BREACH OF THE RIGHTS OF A PATENTEE.

24. The making of a patented machine fit for use, and with design to use it for profit, in violation of the patent right, is, of itself, a breach of the patent right, for which an action lies. But the making of a machine for the mere purposes of philosophical experiment, or to ascertain the verity and exactness of the specification, is not an infringement.

In *Whittemore v. Cutter*, (1 Gallison, 432,) Judge Story observed, "It is now contended by the defendant's counsel, that the making of a machine is under no circumstances an infringement of the patent. The first section of the act of 1793 expressly gives to the patentee, &c., 'the full and exclusive right and liberty of making, constructing, using, and vending to others to be used, the invention or discovery. The fifth section of the same act gives an action against any person who 'shall make, devise, and use, or sell the same.'

It is also observed in the same case, "that it could never have been the intention of the legislature to punish a man who constructed such a machine merely for philosophical experiments, or for the purpose of ascertaining the sufficiency of the machine to produce its described effects." A similar opinion may be found in *Saurin et al. v. Gild*, (1 Gallison, 487.)

25. Under the general patent law, the plaintiff has a right to recover against a person who erected a machine prior to the issuing of a patent, and made use of it afterwards.

In the case of *Evans v. Weiss*, (3 Hall's Am. L. Journal 180, N. S.)

Judge Washington says, "The next inquiry is, does the general law give to the plaintiff a right to recover against a person who erected a machine prior to the issuing of a patent to the first inventor of it, and who afterwards made use of the same?"

"The act of the 17th April, 1800, which, as to this point, is the only law now in force, declares that if any person, without permission from the inventor, shall make, devise, use, or sell the thing whereof the exclusive right is secured to the patentee, he shall pay three times the damage sustained by the patentee, to be ascertained by a jury. Now, whatever doubts might have existed as to the meaning of the words 'devise and use' in the 5th section of the act of 21st February, 1793, thus connecting the using with the devising of the improvement, there can be none under the 3d section of the act of 1800, which repeals the whole of the 5th section of the old law."

"It is plain that the *using* of the improvement invented by another, and secured by patent, is of itself an offence, no matter at what time such improvement was devised or made."

"The law in this case cannot be termed *ex post facto*, or even retrospective in its operation, because the general law declares beforehand that the right of the patent belongs to him who is the first inventor, even before the patent is granted; and, therefore, any person, who, knowing that another is the first inventor, yet, doubting whether that other will ever apply for a patent, proceeds to construct a machine of which, it may afterwards appear, he is not the first inventor, acts at his peril, and with a full knowledge of the law, that, by relation back to the first invention, a subsequent patent may cut him out of the use of the machine thus erected."

26. *When a party claims several distinct and independent improvements in the same machine, and procures a patent for them in the aggregate, he is entitled to recover against any person who shall use any one of the improvements so patented, notwithstanding there has been no violation of the other improvements.*

This rule was laid down by Judge Story, in the case of *Moody v. Fisk*, (2 Mason, 112.) He observes, that, where a patent is obtained for such improvements in the aggregate, "the patent goes for the whole of the improvements; and if each be new, and be claimed distinctly in the patent as such, there does not seem any good reason why the party who pirates any part of the invention should not be liable to damages."

"The principal difficulty that arises, is the application of the doctrine; and that may, in most cases, be removed by considering the nature and extent of the patent, or rather of the thing invented and patented. When the patent goes for the whole of a machine as a new invention, and the machine is in its structure substantially new, any person who pirates a part of the machine substantially new in its structure, deprives the inventor, so far, of his exclusive right in his invention, and may in a great measure destroy the value of the patent. When a patent is for several distinct improvements in an existing machine, or for an improved machine incorporating several distinct improvements, which are clearly specified there, if a person pirates one of the improvements, he violates the exclusive right of the patentee; for the patent is as broad as the invention, and the invention covers all the improvements; and it is a wrong done to the patentee to deprive him of his exclusive right in any of his improvements."

27. *Where a patent is for a new combination of existing machinery or machines, and does not specify or claim any improvements or inventions, except the combination, unless that combination be substantially violated, the patentee is not entitled to any remedy, although parts of the machinery be used by another, because the patent, by its terms, stands upon the combination only.*

The foregoing rule will also be found in the case last cited. The Judge observed that, "in such a case, proof that the machines, or any part of their structure, existed before, forms no objection to the patent, unless the *combination* has existed before, for the reason that the invention is limited to the combination. And yet, if the combination itself be not wholly new, but, up to a certain point, has existed before; and the patentee claims the whole combination as new, instead of his own improvement only, as by taking out a patent for a whole machine, doubtless his patent is void, for it exceeds his invention."

"But if there are different and distinct improvements, constituting parts of the combination, which are specified as such in the patent specification, and any one of them be pirated, the same rule would seem to apply as in cases where part of an invention is pirated; for the patent then shows that the invention is not limited to the mere combination, but including the particular improvements."

28. *Upon a plea of not guilty, the plaintiff must prove, not only that defendant has made a machine, but that it substantially resembles that for which the plaintiff has a patent.*

The foregoing and the three following points were decided in the case of *Dixon v. Mayer*, (C. C. U. S. P. April 1821, M. S.)

29. *It is not a defence, that the plaintiff was not himself the original projector of the improvement, if the patent was taken out with the knowledge and assent of the original projector, and not in fraud of his right.*

30. *The plaintiff must in all cases prove an infringement of his right subsequent to the date of his application or patent; but if the defendant attempts to avoid the patent by showing that plaintiff was not the original discoverer, the patent will be considered as relating back to the original discovery.*

31. *It lies on the defendant to show that some other person than the patentee was the original inventor; it is the point of his defence, and he must substantiate it.*

ON THE DAMAGES ALLOWED IN CASES OF INFRINGEMENT.

32. *In an action for the infringement of a patent right, the law gives to the plaintiff treble the actual damages, sustained by him: and the rule is to allow him treble the amount of the profits, actually received by the defendant, in consequence of his using the plaintiff's invention.*

The preceding rule will be found in *Lowell vs. Lewis*; (1 Mason, 184.) Judge Story, in his charge to the jury, says, "The jury are to find the single damages, and it is the proper duty of the court to treble them, in awarding the judgment. And let the damages be estimated as high as they can be, consistently with the rules of law upon this subject, if the plaintiff's patent

has been violated, that wrongdoers may not reap the fruits of the labor and genius of other men."

In the case of *Whittemore vs. Cutter*, (1 Mason, 483,) Judge Story said, "As to the rule by which the plaintiff's damages are to be estimated, it is clear by the statute that only the *actual damages* sustained can be given. By the terms 'actual damages' in the statute, are meant such damages as the plaintiff can actually prove, and have *in fact* sustained, as contradistinguished to mere imaginary or exemplary damages, which in personal torts, are sometimes given."

"If the jury are of opinion that the user of a machine is actually proved in this case, the rule of damages should be the value of the use of such a machine, during the time of the illegal user."

"If the jury are of opinion that the making of a machine, only, is proved, as there is no evidence in the case to show any actual damages by the making, they ought to give nominal damages to the plaintiff, for where the law has given a right, and a remedy for the violation of it, such violation itself imports damages; and, in the absence of all other evidence, the law presumes a nominal damage to the party."

33. In estimating the damages, the jury have no right to take into their consideration the counsel fees.

This is established in the case of *Arcamble vs. Wiseman*, (3 Dallas' R. 306.) The circuit court of the district of Rhode Island had decreed, among other things, the payment of 1600 dollars for counsel fees for the court below, and the Supreme Court of the United States struck this sum out. They said the general practice of the United States is in opposition to it; and even if that practice were not strictly correct, in principle, it is entitled to the respect of the court, till it is changed or modified by statute.

ON THE DEFENCES OF WHICH A DEFENDANT MAY AVAIL HIMSELF.

34. The sixth section of the patent act does not enumerate all the defences of which the defendant may legally avail himself: he may give in evidence that he never did the act attributed to him; that the patentee is an alien, not entitled under the act; or that he has a license, or authority from the patentee.

This rule will be found in the case of *Whittemore vs. Cutter*, (1 Gallison, 435.) In the case of *Evans vs. Hettrick*, (7 Wheaton,) the same doctrine was sustained by the court; and where the question asked was, whether the machine used by the defendant, was like the model exhibited in court, of the plaintiff's patented machine, it was held that no notice was necessary to authorize the enquiry.

In the case of *Kneass vs. the Schuylkill Bank*, (C. C. U. S. P. Oct. 1820, M. S.) the court observed, that, in an action for the violation of a patent, the defendant, under the general issue, without notice of the special matter, may give in evidence the act of Congress respecting patents, as well as some other matters than those enumerated in the sixth section, such as alienage of plaintiff, and license by him to use the invention. But he cannot give in evidence that the invention is not new, nor can that circumstance, however apparent, be judicially noticed by the jury. But defendant may make objections to the validity of a patent, of a different kind, such as the want of a specification or written description, as required by the 3d section, or a specification ambiguous and unintelligible, which is the same as no spe-

cification. These are defects in the plaintiff's title, apparent upon the face of the documents on which the title is founded. On the same ground, defendant may object that the patent is broader than the discovery; that it is for an improvement, which is not distinguished, in the specification, from the original invention; that the suggestions of the petition are not recited substantially in the patent.

35. *There is no limitation to the period in which the defendant, under the general issue, may give in evidence that the patentee was not the original inventor.*

In the case of *Evans vs. Eaton*, (1 Peters' C. C. R.) the counsel for the plaintiff insisted that, upon the equity of the 10th section of the law of February, 1793, the defence set up, *that the patentee was not the original inventor*, ought not to be allowed. This section provides that, upon oath or affirmation being made before the Judge of the district court where the patentee, &c. resides, within three years of the time of issuing a patent, that it was obtained surreptitiously, or upon false suggestion, the district Judge may grant a rule that the patentee, &c. show cause why process should not issue against him to repeal the patent. Upon this plea, Judge Washington said, "The law has declared that, in actions of this kind, the defendant may plead the general issue, and give in evidence that the plaintiff was not the original inventor of the machine for which the patent was granted. The legislature has not thought proper to limit this defence in any manner; and shall this court do it? But what seems to be conclusive on this point is, that the argument would tend to defeat altogether the provisions of the 6th section, which authorize this defence to be made; for, if it could not be set up after three years from the date of the patent, it would be in the power of a patentee to avoid it altogether, by forbearing to bring suits until after the expiration of that period."

A writ of error in the above case was taken out to the Supreme Court. (3 Wheaton, 454.) The cause was remanded to the circuit court for a new trial; but it does not appear that the correctness of the foregoing opinion was in any way impeached.

ON ARBITRATION IN THE CASE OF INTERFERING APPLICATIONS.

The 9th section of the act of Congress of 1793 provides that, "in the case of interfering applications, the same shall be submitted to the arbitration of three persons," &c. and that their award "shall be final as far as respects the granting of the patent, and if either of the applicants shall refuse or fail to choose an arbitrator, the patent shall issue to the opposite party."

36. *If a patent has been obtained by the plaintiff upon the defendant's refusal to submit to an arbitration, and the defendant subsequently obtain a patent for the same invention, this is not conclusive proof that the latter was obtained surreptitiously, or upon false suggestion.*

In the case of *Stearns vs. Barrett*, (1 Mason 174,) Judge Story, in reference to the above opinion, contained in the charge of the district court, says, "In my judgment, there was no error in this opinion of the court. If an arbitration had actually been perfected between the parties under the 9th section, the award or decision of the arbitrators would have been final between the parties only so far as respected the granting of the patent. It would not have concluded the parties from showing in the present suit that it was obtained upon false suggestions; it would not have concluded

them, in an action for an infringement of the patent, from asserting any defence allowed by the 6th section of the patent act. The sole object of such an award is to ascertain who is *prima facie* entitled to the patent; but, when once obtained, the patent is liable to be repealed or destroyed by precisely the same powers as if it had issued without objection. If the award itself would not have been conclusive *a fortiori*, a refusal to join in an arbitration under the statute cannot be so."

OF THE COURT IN WHICH AN ACTION MUST BE BROUGHT.

37. *A State court has no jurisdiction in an action brought for the infringement of a patent right; such a suit must be instituted in the circuit court of the United States.*

This was decided in the case of Parsons *vs.* Barnard, (7 Johnson's N. Y. Rep. 144.)

It was an action on the case for a breach of the plaintiff's patent. The defendant pleaded to the jurisdiction, and the plaintiff demurred. The court gave the following opinion: "As the judicial power of the United States extends to all cases in law and equity *arising under the laws of the United States*, and as the act of Congress on the subject of patent rights has declared that the suit for the infringement of them shall be brought in the circuit court of the United States, and gives the court power in such cases to declare the patent void, the State courts have, of course, *no jurisdiction* in the case. The judgment must be rendered for the defendant."

In the case of Livingston *et al. vs.* Van Ingen *et al.*, (4 Hall's Am. Law Journal, 63,) it was held by Judge Livingston, that, "There being no act of Congress conferring on the circuit court of the United States a right to take cognizance, as a court of equity, of a case under the patent law, between citizens of the same State, that court cannot take cognizance of such a cause." This decision was made in the year 1811. But "An act to extend the jurisdiction of the circuit court of the United States to cases arising under the law relating to patents," was passed on the 15th of February, 1819. That act declares "that the circuit courts of the United States shall have original cognizance, as well in equity as at law, of all actions, suits, controversies, and cases, arising under the law of the United States, granting," &c.

ON THE GRANTING OF AN INJUNCTION.

In the case of Sullivan *vs.* Redfield and Seymour, (1 Paine, 442,) an application was made for an injunction against the violation of a patent right. In delivering his opinion, Judge Thompson decided, that—

38. *To obtain the injunction, the case should be such as to leave little, if any doubt in the mind of the court, as to the validity of the patent; especially if it rests upon the complainant's own showing, without any opposing testimony.*

39. *The established rules which govern courts of equity on such applications, are, that, where there has been an exclusive possession of some duration under the patent, an injunction will be granted without putting the party previously to establish the validity of his patent at law. But where the patent is recent, and it is attempted to be shown that the specification is bad, or otherwise that the patent ought not to have been granted, the court will not take the decision upon itself, but will send the party to establish his patent at law.*

A LIST OF ALL THE
PATENTS GRANTED BY THE UNITED STATES;

WITH THE
NAMES OF THE PATENTEES,

ALPHABETICALLY ARRANGED.

LIST OF PATENTS GRANTED BY THE UNITED STATES.

AGRICULTURE.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Agriculture, improvement	Peter Pardee	Trenton, N. Y.	Feb. 6, 1829
Apples, machine for paring	Moses Coates	Pennsylvania	Feb. 14, 1803
Do do coring, and quartering	Willard Badger	Boston, Mass.	Feb. 16, 1809
Do do do	Stephen Cruttenden	Guilford, Conn.	Aug. 25, 1809
Do do coring and quartering	Cyrus Gates	Rutland, Ver.	Dec. 15, 1810
Do do cutting; also, potatoes, turnips, &c.	William Kling	New Holland, Pa.	April 28, 1816
Do do do	A. Glendinning	Loudoun county, Va.	Sept. 9, 1823
Do do do	Joel Farmham	Tioga, N. Y.	June 28, 1825
Do do do	Bela Churchill	Buckfield, Me.	Dec. 9, 1825
Do do do	Camm Moore	Guilford co., N. C.	Dec. 30, 1826
Do do mill	H. E. Paine and S. H. Russell	Le Roy, Ohio	March 5, 1827
Do machine for grinding	Constant H. Weeks	Paris, N. Y.	April 9, 1827
Do do grating	Uri Emmons	New York	Feb. 13, 1828
Do do grinding	David D. Demarest	New Milford, N. Y.	Jan. 14, 1829
Do fruit, and roots, preserving	Amos Hart	Wharion township, Pa.	Aug. 10, 1829
Do paring machine	R. and A. Mosher	Galway, N. Y.	Dec. 31, 1829
Bee hive	John Sweet	Bethlehem, Mass.	April 11, 1810
Do	Timothy Stanley	Farmington, Conn.	Dec. 9, 1811
Do	Do	Do	Jan. 6, 1812
Do	Edward Blake	Hartford, Me.	Nov. 16, 1820
Do	Simon C. Williams	Shenandoah co., Va.	May 14, 1823

Do	Cattle, machine for watering	Root, N. Y.	Mar. 18, 1824
Do	Cheese vat, for forming pineapple cheese	Fayette co., Pa.	Feb. 27, 1827
Bees, management of	Do	Lockport, N. Y.	Aug. 26, 1828
Bleaching unrotted flax and hemp	Do	New York	Aug. 27, 1822
Buds, delaying from blossoming	Do	Rowan.co., N. C.	Mar. 16, 1822
Cabbage, machine for cutting	Do	Greenwich, Pa.	Nov. 14, 1826
Cattle, machine for watering	Do	Massachusetts	Mar. 16, 1804
Do	Troy, Pa.	Troy, Pa.	July 10, 1824
Bees, management of	Do	Goshen, Ct.	April 17, 1810
Bleaching unrotted flax and hemp	Do	Litchfield, Ct.	June 4, 1827
Buds, delaying from blossoming	Do	Sackett's Harbor, N.Y.	May 2, 1829
Cabbage, machine for cutting	Do	Stanfield, Ct.	April 5, 1806
Do nets	Do	Covington, N. Y.	July 20, 1825
Do curd, machine for cutting	Do	New York	June 31, 1829
Older mill and bark mill	Do	Easton, Mass.	March 8, 1829
Do	Moses B. Bliss	Pittston, Maine	April 21, 1829
Do	Daniel Pride	Potsdam, N. Y.	June 11, 1829
Do and press, horse power	Do	Hartford, Ct.	March 1, 1815
Do	Ozias Pettibone	Pennsylvania	Feb. 13, 1796
Do	Jona Roberts, jun.	Connecticut	April 22, 1802
Do	Asher Spicer	Pennsylvania	July 19, 1802
Do	Martin Miller	Do	Mar. 21, 1803
Do	John Cottle	York, Pa.	July 28, 1803
Do	Timothy Kirk	Pennsylvania	Dec. 21, 1803
Do	David Buckman	Do	Feb. 27, 1804
Do	Jacob Warrell	Lancaster, Pa.	April 30, 1804
Do	Michael Withers	York, Pa.	May 10, 1805
Do	Michael Zorger		
Do	William Sampson and		
Do	Cyrus Curtis	New Haven, Vt.	Jan. 6, 1809
Do	Samuel Condon	New Hartford, Ct.	March 3, 1809

LIST OF PATENTS—AGRICULTURE—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Clover seed, machine for rubbing out	Nehemiah Price	Frederick co., Md.	March 2, 1811
Do do	Henry Spickard	Fincastle, Va.	Aug. 16, 1814
Do do for gathering	Samuel Arnold	Botetourt, Va.	Jan. 25, 1815
Do do	John Smith	Fredericksburg, Va.	April 28, 1815
Do do	John Bottom	Warren, N. Y.	Jan. 28, 1822
Do do	William Loomis	Ashford, Ct.	April 27, 1822
Do mill	John Bolton	Warren, N. Y.	Jan. 9, 1823
Do machine	Thomas D. Burrall	Geneva, N. Y.	June 5, 1823
Do do	Isaac H. Haskins	Columbia, N. Y.	May 6, 1824
Do do	Benjamin Sutton	Romulus, N. Y.	Feb. 10, 1825
Coffee hulling machine	Roswell Abbey	New York	Jan. 1, 1825
Corn covering machine	Thomas Williams	Pittsylvania, Va.	Dec. 19, 1822
Corn crusher	Samuel K. Gannett	Greenville, Ten.	May 25, 1827
Corn husking machine	Howlet Bushnell	Norwich, Ct.	Nov. 14, 1826
Corn sheller	Paul Pilsbury	Massachusetts	Oct. 25, 1803
Do and grinder	Levi Stevens	New York	May 8, 1804
Do and wheat thrasher	John Heavin	Fredericktown, Md.	May 8, 1810
Do improvement on Phinney's	Zina Phinney	Cairo, N. Y.	Feb. 16, 1815
Do improvement on James's	J. Fuller	Rockland, Va.	Mar. 19, 1816
Do	Hugh Gallagher	Pittsburg, Pa.	Oct. 29, 1818
Do	Walter Janes	Ashford, Ct.	May 6, 1819
Do	Rufus Guthrie	Brimfield, Ms.	Jan. 18, 1820
Do	H. Roosevelt and E. J. Roosevelt	New York	Jan. 26, 1821
Do	Noah Lindsay	Catskill, N. Y.	Mar. 28, 1821

Do		Petersham, Mass.	Feb. 27, 1823
Do	New York	New York	April 15, 1823
Do	Brookfield, Ct.	Brookfield, Ct.	April 9, 1824
Do	Falls Township, Pa.	Falls Township, Pa.	April 20, 1824
Do	Manchester, Vt.	Manchester, Vt.	May 25, 1824
Do	Palmyra, N. Y.	Palmyra, N. Y.	June 17, 1824
Do	New York	New York	Nov. 13, 1824
Do	Do	Do	Dec. 2, 1824
Do	Columbia, Ct.	Columbia, Ct.	Dec. 23, 1824
Do	Harpersfield, N. Y.	Harpersfield, N. Y.	Dec. 24, 1824
Do	Trenton, N. J.	Trenton, N. J.	Dec. 27, 1824
Do	New York	New York	May 4, 1825
Do	Do	Do	June 22, 1825
Do	Morrisville, Pa.	Morrisville, Pa.	June 27, 1825
Do	Hallowell, Me.	Hallowell, Me.	Sept. 9, 1825
Do	Poultney, Vt.	Poultney, Vt.	Nov. 1, 1825
Do	Hudson, N. Y.	Hudson, N. Y.	Dec. 8, 1825
Do	Guilford, N. C.	Guilford, N. C.	June 15, 1826
Do	Greensburg, N. C.	Greensburg, N. C.	Oct. 24, 1826
Do	Guilford, N. C.	Guilford, N. C.	Feb. 7, 1827
Do	Poundridge, N. Y.	Poundridge, N. Y.	Mar. 16, 1827
Do	Providence, R. I.	Providence, R. I.	Mar. 18, 1828
Do	Vernon, Ind.	Vernon, Ind.	April 29, 1828
Do	Louisville, Ky.	Louisville, Ky.	July 29, 1828
Do	Virgin, N. Y.	Virgin, N. Y.	Dec. 8, 1828
Do	Canandaigua, N. Y.	Canandaigua, N. Y.	June 11, 1829
Do	Butler co., Pa.	Butler co., Pa.	Sept. 25, 1823
Do	Essex co., Va.	Essex co., Va.	July 7, 1814
Do	North Carolina	North Carolina	Sept. 2, 1801
Do	Do	Do	May 14, 1803
Do	James Simonds and Jos. McJames	Charleston, S. C.	May 17, 1804

LIST OF PATENTS—AGRICULTURE—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Cotton, hopper for cleaning	G. F. Saltonstall	Fayetteville, N.C.	Dec. 31, 1817
Cotton cleaner	George T. Sadler	Lawrence co., Ala.	Mar. 10, 1823
Do	Jesse Reed	Marshfield, Mass.	Feb. 3, 1826
Do	Do	Do	Aug. 10, 1827
Sea Island	Amos Gilliam	Reedy Fork, S. C.	Oct. 10, 1829
Do	Eli Whitney	Massachusetts	Mar. 14, 1794
Cotton gin	Hodgen Holmes	Georgia	May 12, 1796
Do	Robert Watkins	Do	Dec. 23, 1796
Do	John Murray	Do	Dec. 23, 1796
Do	Eben. Whiting	Massachusetts	Jan. 22, 1801
Do	Wm. Bell and Sam'l D. Montmollen	Georgia	April 7, 1802
Do	Wm. Bell and John S. D. Montmollen	Georgia	March 7, 1803
Do	William Bell	Pennsylvania	Nov. 24, 1803
Do	John McBride	Nashville, Ten.	Aug. 8, 1805
Do	Obed Crawford	-	June 22, 1807
Do	Rbt. Hancock, sen. & Ed. W. Carr	Philadelphia, Pa.	Feb. 6, 1811
Do	Isaiah Jennings	New York	Dec. 27, 1815
Do	Englehart Cruse	Charleston, S. C.	Nov. 18, 1816
Do	Isaiah Jennings	New York	Jan. 17, 1817
foot	William Gould	McIntosh co., Ga.	Feb. 28, 1821
Do	Samuel Pennoyer	Cross River, N.Y.	July 24, 1822
Do	Eleazer Carver, jun.	Bridgewater, Mass.	June 12, 1823

saw and grates for

Do		Bridgewater, Mass.	June 13, 1823
Do	Iсаac L. Barnes	Beaulon, S. C.	Nov. 6, 1826
Do	Peter K. ox	Augusta, Ga.	Dec. 7, 1826
Do	Joseph Eubank, jun.	Glasgow, Ken.	July 29, 1828
Do	David Phillips	Jefferson co., Miss.	April 3, 1829
Do	S. T. Conn.	New York	June 11, 1829
Do	Samuel W. Pomeroy	Brighton, Mass.	May 6, 1824
Cotton plant, management of the		Wilkinson co., Miss.	Feb. 3, 1824
Cotton scraper		Springfield, Mass.	Sept. 15, 1819
Cotton seed, preparing for food		Pennsylvania	Dec. 6, 1803
Cotton, separating seed		Petersburg, Va.	Jan. 21, 1829
Do	do	Do	Dec. 15, 1829
Do	do	Do	Dec. 28, 1829
Do	do	Rensselaerville, N.Y.	Mar. 24, 1823
Cradle, for grain		Vermont	Jan. 25, 1799
Cultivator, for corn and beans			Nov. 19, 1814
Do	American	New London, Ct.	Aug. 21, 1819
Do		Wilmington, Vt.	June 21, 1823
Do	tooth for	Philadelphia, Pa.	Nov. 8, 1825
Do	do	Do	April 13, 1826
Do	and harrows	Williamsco., Ten.	Aug. 19, 1828
Do		Westminster, Vt.	Dec. 7, 1829
Cutting box		South Carolina	Aug. 24, 1822
Dairy cooler		Paradise, Pa.	Dec. 7, 1826
Fan, wheat		New Hampshire	April 15, 1796
Do	do	New York	July 9, 1802
Do	house		Mar. 28, 1803
Do	wheat, thrashing, &c.	Virginia	May 3, 1804
Do	do	Do	Mar. 1, 1816
Do	do	Frederick co., Md.	Mar. 11, 1816

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LIST OF PATENTS—AGRICULTURE—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Ban and screen	John Peyton	Orange co., Va.	Nov. 7, 1825
Ban, wheat	George Hoffman	Fredericktown, Md.	Aug. 21, 1829
Fanning mill	Oliver Barret, jun.	Sandy Hill, N. Y.	Mar. 23, 1808
Do	Samuel Dodge	Cleveland, Ohio	Feb. 9, 1808
Do	Benjamin Atwell	Burlington, N. Y.	Sept. 19, 1808
Do	Samuel Shnedeker	Johnstown, N. Y.	April 27, 1810
Do	Thomas W. Jessup	Fredericktown, Md.	June 18, 1811
Do	Thomas S. Barnum	Sharon, Ct.	Jan. 15, 1812
Do	Samuel Fitch	Homer, N. Y.	Oct. 29, 1814
Do	Joel Soper	Windsor, Ct.	Dec. 3, 1814
Do	Benja. D. Beecher	New Haven, Ct.	May 30, 1816
Do	Daniel Donoghoe	New York	April 16, 1821
Do	David Neefus	Flatlands, N. Y.	Sept. 22, 1823
Do	Lemuel Peck	Brookfield, Ct.	Aug. 13, 1824
Do	Enoch Walker	Springfield, Pa.	Mar. 28, 1825
Do	Ovid Pinney and Jas. Olmstead	Caledonia, N. Y.	Nov. 7, 1826
Do	Enoch Walker	Springfield Four Cor- ners, Pa.	Sept. 20, 1827
Do	Justus Frary	Southampton, Mass.	Feb. 17, 1829
Do	Samuel Mulliken	Philadelphia, Pa.	Mar. 11, 1791
Do	John Cannon	Delaware	Jan. 17, 1801
Do	Elisha Mack		Mar. 21, 1806
Do	Jona. Barlow		Aug. 23, 1809
Do	Oliver Wilde		April 16, 1810

John Hawes	Hudson, N. Y.	June 19, 1812
Samuel Davison	Romulus, N.Y.	May 17, 1822
Pierson Reading	Trenton, N.J.	Jan. 3, 1825
Francis Burdick	Kortright, N.Y.	Feb. 28, 1825
William Wheeler	Warren, N.Y.	Mar. 26, 1825
Joseph Briggs	Schoharie, N.Y.	Oct. 5, 1825
Joseph Hines & Wm. Bain	New York	Aug. 12, 1826
Henry Schoonhoven	Pultney, N.Y.	Dec. 11, 1827
Samuel Achey	Heidelberg townsh.Pa.	Feb. 18, 1828
Samuel Mulliken	Pennsylvania	Jan. 15, 1795
Benjamin Tyler	New Hampshire	Feb. 26, 1799
Hez. Betts	Connecticut	May 3, 1802
Owen Roberts	Pennsylvania	April 12, 1804
Richard Button	Cazenovia, N.Y.	Feb. 11, 1807
Thomas Cohoon	Do	April 13, 1808
Rd. S. Chappel	Pawlett, N.Y.	Jan. 18, 1809
Eli F. Hill	Fabius, N.Y.	Feb. 11, 1809
Nath'l P. Robinson	Fleming co., Ken.	Aug. 31, 1810
Edward Rumsey	Christian co., Ken.	April 26, 1811
John C. Johnson	Fayette co., Ken.	May 16, 1811
Robert Miller	Lexington, Ken.	July 13, 1811
J. A. Dana	Cazenovia, N.Y.	July 23, 1811
William Harper	Richmond, Va.	Oct. 15, 1811
Archibald Tanner	Trumbull co., Ohio	Oct. 24, 1811
Ira Millard	Kent, Ct.	May 6, 1813
William Vanduzer	Warwick, N.Y.	June 30, 1813
Francis Hall	Tennessee	Oct. 7, 1813
G. H. Ricketts and John Kinney, Jr.	do	July 12, 1814
Do	Mooristown, N.J.	Oct. 24, 1814

LIST OF PATENTS—AGRICULTURE—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Flax and hemp, wheel for dressing Do machine	Caleb & W. A. Benton Thomas Pullen	Amenia, N. Y. Lexington, Ken.	May 22, 1816 June 20, 1816
Do preparing without water rotting Do machine	Wm. Pickingsbottom David Melville	New York Newport, R. I.	July 12, 1816 Nov. 18, 1818
Do machine	Henry Burden	Albany, N. Y.	June 15, 1822
Do do	Wm. Cumberland	New York	July 9, 1822
Do do	James Macdonald	Do	Aug. 31, 1822
Do do	Namon Goodsell	Paris, N. Y.	Sept. 19, 1822
Do do	Wm. Cumberland	New York	Nov. 29, 1822
Do do	James Macdonald	Do	Jan. 18, 1823
Do do	Joseph Hines & Wm. Bain	Columbus, Ohio Somerville, N. J.	Feb. 3, 1823 Dec. 4, 1823
Do do	Frederick Cox	Ligonja, Me.	Jan. 28, 1824
Do do	Benjamin Lewis	Augusta, N. Y.	April 16, 1824
Do do	Platt Wakelee	Palmyra, N. Y.	May 11, 1824
Do do	Erastus Kellogg	Pittsford, N. Y.	June 22, 1824
Do do	Wm. C. Davison	New York	Nov. 5, 1824
Do do	Reynolds Gillman	Middletown, Ct.	Nov. 26, 1824
Do do	Franklin Kellsey	New York	Nov. 27, 1824
Do do	T. S. & A. Barnum	Harrison co., Ken.	Dec. 28, 1825
Do do	Achilles Chinn	Louisville, Ken.	Jan. 17, 1828
Do do	John C. Wenzell	Philadelphia, N. Y.	Feb. 8, 1828
Do do	Evans Christian	Troy, N. Y.	April 15, 1829
Do do	Amos Salisbury		

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	RESIDENCE.
Grass and grain, machine for cutting mowing	John Comfort	Bucks. co., Pa.	Feb. 26, 1811
Do do	Peter Baker	Long Island, N. Y.	Feb. 19, 1814
Do do	Jer. Baily	Chester co., Pa.	Feb. 13, 1822
Do do	Ezra Cope and T. Hoopes, jun.	Do	May 18, 1825
Do do	Peter Gaillard	Lancaster, Pa.	Dec. 4, 1812
Gum, extracting from unrooted flax	Sands Olcott	Harsimus, N. J.	Dec. 3, 1828
Hacking machine	James Patterson	Southampton, N. Y.	Dec. 7, 1805
Harrow teeth	Wm. McConaughey H. Hopkins and J. Pratt	New Garden, Pa.	Dec. 8, 1823
self-sharpening cleave	Lemuel Tam	Pompey, N. Y.	Nov. 9, 1824
teeth	Wm. McConaughey & David C. Simmons & Cond' Raguet, admir. of James Simmons	Sussex co., Del.	July 11, 1826
Hay, machine for binding and pressing	Philadelphia, Pa.	New Garden, Pa.	Feb. 16, 1827
Hay and cattle, machine for weighing	Do	Philadelphia, Pa.	Nov. 7, 1809
Hay, machine for pressing	New York	Do	May 10, 1811
Hay, do	Pittstown, Me.	Do	April 29, 1813
Hemp break	Washington co., Ohio	Washington co., Ohio	Jan. 26, 1828
Do do	Scott, Ken.	Scott, Ken.	Dec. 28, 1809
Do preparation	Lexington, Ken.	Lexington, Ken.	May 12, 1828
Hoes	Fitchburg, Mass.	Fitchburg, Mass.	Oct. 11, 1828
Do	Hillsdale, N. H.	Hillsdale, N. H.	April 3, 1819
Do	Joseph Watson	Canaan, Ct.	April 6, 1820

Hoes		Paul Whitin	Northbridge, Mass.	Feb. 22, 1825
Do cast steel	-	Chauncey Bulkley	Colchester, Ct.	Jan. 10, 1827
Do horse iron for ploughing and weeding grain	-	William Carmichael	Sand Lake, N. Y.	July 28, 1827
Do harrow and plough	-	Jona. Cheatham	Providence Inn, Va.	July 31, 1827
Do pronged	-	Joseph Wilson	Marlborough, N. H.	Sept. 20, 1827
Do weeding and others	-	James A. Black	Columbia, S. C.	Oct. 13, 1828
Do	do	Gideon Freeborn	New York	July 7, 1829
Do	do	Aquila Newbern	Bristol, Pa.	June 1, 1824
Hominy mill	-	Nathan Read	Belfast, Me.	May 8, 1820
Do	do	Robert Campbell	Martinsburg, Va.	April 9, 1827
Horses' ears, mode of setting	-	Seth Janes	-	Dec. 31, 1804
Do and cattle, mode of breaking	-	David Cooley, jun.	Orange co., N. Y.	June 23, 1810
Do training and breaking	-	Townsend Cock	New York	March 1, 1811
Do mode of improving the shape, &c.	-	Aaron Carman	Hyde Park, N. Y.	Nov. 27, 1828
Hulling machine, cylindrical	-	Sebastian Houpt	Philadelphia, Pa.	Nov. 16, 1812
Do cotton seed	-	John Lineback	Salem, N. C.	Mar. 31, 1814
Do grain	-	Benjamin Maltby and	New Haven, Con.	Feb. 28, 1818
		Maltby Fowler	-	
		Benjamin Maltby and	New Haven, Con.	Feb. 26, 1819
		Maltby Fowler	Belfast, Me.	Sept. 10, 1822
		Nathan Read	Paris, Me.	July 12, 1822
		Thatcher Blake	Paris, N. Y.	Aug. 21, 1823
		Nathaniel Barret	Talmadge, Ohio	May 21, 1824
		William J. Hart	New Jersey	June 18, 1799
		William Ellis	Pennsylvania	May 19, 1800
		Robert Smith	Baltimore, Md.	June 2, 1819
		Anthony B. Martin	Coosawatchie, S. C.	Aug. 12, 1829
		James Bowman	Massachusetts	March 2, 1799
		Charles Whiting	New York	Feb. 4, 1800
		John G. Gebhard	Hamilton, Mass.	May 14, 1827
		David Dodge		
Manure or compost for improving soils	-			
Manuring wagon	-			
Oil, extracting	-			
Do from palma christi	-			
Do flax seed	-			

LIST OF PATENTS—AGRICULTURE—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Onion seed, machine for separating from grain	Lazarus Ruggles and Daniel Tomlinson	Brookfield, Ct.	Mar. 16, 1810
Plant, applicable to various uses	Charles Whitlaw	New York	Jan. 11, 1812
Planting machine for corn, &c.	Eliakim Spooner	Vermont	Jan. 25, 1799
Do do	John Beecher	Lycoming co., Pa.	Mar. 18, 1809
Do do	John Blocher	Lancaster, Pa.	April 12, 1814
Do do	George Harper	Jenkintown, Pa.	Mar. 23, 1818
Do do	Andrew Cocke	Flushing, N.Y.	Mar. 20, 1821
Do do	Christopher Ford	Painesville, Va.	May 26, 1825
Do do	Francis H. Smith	Richmond, Va.	Feb. 15, 1826
Do do	William Ross	Middle Baxton, Pa.	June 24, 1826
Do do	John Lohdell	Warren co., Miss.	Dec. 26, 1826
Orison Starr	A. H. & L. Robbins	Richmond, N.Y.	Aug. 22, 1828
	Matthew Lenox, Wm. Croft, and H. Pitner	Denmark, N.Y.	Aug. 28, 1828
	Zebina Lane	Steubenville, Ohio	26, 1829
	Charles Newbold	Harrisburg, N.Y.	Sept. 21, 1829
	John Deaver	New Jersey	June 26, 1797
	David Peacock	Baltimore, Md.	July 12, 1804
	Seth Vinton	Burlington, N.J.	April 1, 1807
	Hez. Harris	Wilmington, Ct.	Nov. 18, 1807
	Bullitt, Keo.	Bullitt, Keo.	Feb. 24, 1808
Plough	Rich'd B. Chenoweth	Baltimore, Md.	Nov. 25, 1808
Do harrow	Frederick Woodward	New Lisbon, N.Y.	July 18, 1809
Do planting	Stephen Hall	Boston, Mass.	July 13, 1810
Do draining			

Do varying the motion of the common		Sharon, Ct.	Aug. 20, 1811
Do	Fredericktown, Md.	Sept. 7, 1811	
Do	Do	Jan. 11, 1812	
Do	Cayuga co., N. Y.	Jan. 11, 1812	
Do	Strasburg, Pa.	Feb. 8, 1813	
Do	Onondaga co., N. Y.	May 28, 1813	
Do	Scipio, N. Y.	June 23, 1813	
Do	Middletown, Md.	Aug. 7, 1813	
Do	Enfield, Ct.	Aug. 28, 1813	
Do	Brandywine & Chester co., Pa.	March 1, 1814	
Do	Scipio, N. Y.	July 1, 1814	
Do	Do	July 5, 1814	
Do	J. Morgan and J. B. Harris	Oct. 11, 1814	
Do	Roswell Tonsley and J. Swann		Nov. 9, 1814
Do	Henry Schultz		Dec. 17, 1814
Do	Elisha Bean		March 4, 1816
Do	Luke Johnson		August 6, 1816
Do	John Cromwell		Oct. 23, 1816.
Do	David Peacock		May 29, 1817
Do	John Lupion		July 31, 1817
Do	Samuel Ogle		June 9, 1818
Do	Perry Miller		Oct. 26, 1818
Do	Gideon Davis		May 26, 1818
Do	Joseph Potts		Nov. 7, 1818
Do	Lemuel Goodrich and John Adams		Dec. 3, 1818
Do	Rich'd N. Harrison		Dec. 19, 1818
Do	George D. Avery		Dec. 28, 1818

LIST OF PATENTS—AGRICULTURE—Continued:

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Plough	Stephen M'Cormick -	Fauquier c. h., Va.	Feb. 3, 1819
Do	Zadock Harris -	Hartford, N. Y.	Mar. 17, do
Do	Abr'm Tice and Isaac Tice -	Union village, N. Y.	Aug. 21, do
Do	Jethro Wood -	Poplar Ridge, N. Y.	Sept. 1, do
Do	Cornelius Bergen -	Brooklyn, N. Y.	Nov. 11, do
Do	James Swartwout -	Taghkanic, N. Y.	Nov. 13, do
Do	P. H. Marshall and Jac. B. Smith -	Lambertville, N. J.	March 3, 1820
Do	George Gibbs -	New York	March 8, do
Do	John W. Jenkins -	Hudson, N. Y.	July 6, do
Do	John S. Wright -	Greenwich, N. Y.	July 28, do
Do	John Balthrop -	Loudoun co., Va.	Sept. 20, do
Do	Robert and Edwin A. Stephens -	Hoboken, N. J.	Sept. 13, do
Do	Cha's Wood and Gilbert Brundage -	Blooming Grove, N.Y.	Nov. 9, do
Do	John Seaver and John Fay -	Rockingham, Vt.	Dec. 14, do
Do	John Wood -	Castleton, N. Y.	Feb. 1, 1821
Do	A. L. & E. A. Stephens -	Hoboken, N. J.	April 23, do
Do	Do -	Do	April 23, do
Do	George J. King -	Red Hook, N. Y.	June 20, do
Do	Obed Seely -	Pottstown, Pa.	Aug. 27, do
Do	William Falconer -	New York	Sept. 13, do

O.	Phelps and G.	Lansing, N. Y.	Nov. 17,	do
Moorehouse	-	New York	Dec. 29,	do
David Hitchcock	-	Northampton, N. J.	Jan. 21,	1822
David Peacock	-	Orange co., N. Y.	Feb. 5,	do
William G. Stuart	-	Durham, N. Y.	Feb. 12,	do
Josiah Ducher	-	Windsor co., Vt.	Feb. 16,	do
G. W. Hawkins and H. Emery	-	Chester, S. C.	Mar. 25,	do
C. G. Gill and James Gill, (B. S.)	-	Montgomery co. N.Y.	May 2,	do
John Gibson	-	Edgefield, S. C.	May 7,	do
William Willis	-	Somerville, N. Y.	July 1,	do
Bailey Carpenter	-	West Chester, N. Y.	July 22,	do
Abijah Lee	-	Troy, N. Y.	Sept. 14,	do
Joseph Woolley	-	Schenectady, N. Y.	Nov. 16,	do
Peter J. Clute	-	Ulster, N. Y.	Dec. 7,	do
J. J. Schoonmaker and J. Dolson	-	Dutchess, N. Y.	Feb. 25,	1823
Ryland Rhodes	-	Albemarle co., Va.	May 8,	do
John Weaver	-	Washington, D.C.	June 3,	do
George Nixon	-	New York	July 16,	do
David Hitchcock	-	Do		
D. H. Jones and W. F. Richardson	-	Palmyra, N. Y.	July 29,	do
Waldren Beach	-	Philadelphia, Pa.	Aug. 26,	do
Obed Hackney	-	Lebanon, Ohio	Aug. 29,	do
John Nash	-	Talmadge, Ohio	Oct. 14,	do
William C. Pancost	-	Addison, Vt.	Jan. 29,	1824
Solomon Austin	-	Sempronius, N. Y.	Feb. 27,	do
Waldren Beach	-	Philadelphia, Pa.	April 9,	do
Thomas Altason	-	Newton, N. J.	April 16,	do
Do cast iron	-			
Do	drill and cotton thinner			
Do	share			
Do	cast iron	for listing and preparing land		
Do	cutter, and points for self-sharpening			
Do	cast iron, with a double-pointed wing			
Do	improvement on Wood's			
Do	self-sharpening			
Do	cast iron			

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Plough, cast iron, cutter for	Jonathan Swann	Cayuga co., N. Y.	April 24, 1824
Do do	Ross Winans	Vernon, N. Y.	May 11, do
Do	D. Chase and A. & J. Gregg	Palmyra, N. Y.	August 4, do
Do	Nathaniel Gillet, jr.	Talmadge township, O.	Sept. 24, do
Do	A. Spicer, jr. and J. Tower	Portage townsh, O.	Sept. 25, do
Do	James Y. Hunt	Talmadge co., O.	Dec. 24, do
Do	Garland Ellington	Turnbridge, Vt.	Dec. 25, do
Do	John Rich, jun.	Madison co., Ala.	Feb. 10, 1825
Do	Phineas Pettis	Troy, N. Y.	Feb. 15, do
Do	George D. Avery	Portage co., Ohio	Feb. 15, do
Do	C. and O. Evans	Georgetown, D. C.	Feb. 15, do
Do	Stephen W. Whitman	Do	Mar. 25, do
Do	Wm. F. Richardson	Philadelphia, Pa.	April 14, do
Do	Gideon Davis	Harpersfield, Ohio	May 7, do
Do	Stephen McCormick	Auburn, N. Y.	June 28, do
Do	John Shephard	Georgetown, D. C.	Oct. 1, do
Do	Thaddeus Fairbanks	Fauquier, Va.	Jan. 28, 1826
Do	William Cocke	Deruyter, N. Y.	April 12, do
Do	Z. S. Holbridge and H. S. Lawson	St. Johnsbury, Vt.	April 19, do
Do	Herinan Russell	Luzerne township, Pa.	April 28, do
Do	Ryland Rhodes	Byrne, N. Y.	Aug. 9, do
Do	for planting corn	Litchfield, Me.	Jan. 16, 1827
Do		Charlottesville, Va.	Feb. 20, do

Noble G. Cryer	Wentworth, N. C.	Mar. 24,	do
Robert Sweeny	Warren co., Ohio	May 18,	do
William Beach	Ph. Philadelphia, Pa.	June 27,	do
George Dofler	Fredericktown, Md.	Aug. 20,	do
Eli Pugh	Graham co., N. C.	Dec. 24,	do
Bird Murphy	Union District, S. C.	Dec. 31,	do
William Ward	Avon, N. Y.	Jan. 26,	1828
Richard Loveridge	Knox co., Ohio	Mar. 8,	do
Charles Howard	Hingham, Mass.	Mar. 10,	do
John Deats	Middletown, Pa.	April 26,	do
Stephen McCormick	Fauquier, Va.	Oct. 22,	do
Norman Staples	Penn's Store, Va.	Nov. 1,	do
John Deakyns	Petersburg, Va.	Nov. 18,	do
John Gordon	Copeck, N. Y.	Jan. 13,	1829
James Boatwright	Columbia, S. C.	June 11,	do
R. Medley, P. Alderfer, and D. Alderfer	Cootstown, Pa.	Do	do
	Urbana, Ohio	Do	do
	Do	Do	do
	South Coventry, Ct.	July 10,	do
	New York	Sept. 11,	do
	Pittsburg, Pa.	Oct. 23,	do
	Philadelphia, Pa.	July 10,	1792
	Beaufort, S. C.	Nov. 23,	1809
	New York	Oct. 24,	1814
	Do	do	do
Do cast iron	Do	do	do
Do iron	Do	do	do
Do	Do	do	do
Do	Do	do	do
Preserving plants from frost	Do	do	do
animal and vegetable substances	Do	do	do
animal or vegetable substances	Do	do	do
do substances	Do	do	do
	Do	do	do
Do butter, eggs, &c.	Do	do	do
Do do	Do	do	do
Pruning shears	Do	do	do
	Do	do	do
	Pike Creek, Md.	Jan. 19,	1825
	New Hampshire	April 26,	1827
	New Haven, Ct.	June 30,	1797
	Simeon Jocelyn	July 13,	1809

LIST OF PATENTS—AGRICULTURE—Continued.

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INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Rake for collecting apples	Ezias Hart	Berlin, Ct.	Dec. 31, 1812
Do horse	Pierson Reading	Trenton, N. J.	Aug. 1, 1818
Do hay	Thomas C. Hance	Palmyra, N. Y.	June 25, 1821
Do do horse	Moses Pennock	E. Marlborough, Pa.	June 26, 1822
Do do revolving	Henry Hoopes and Ezra Hoopes	Wilmington, Del.	July 26, 1824
Do do	Moses Pennock	Kennett's Square, Pa.	Nov. 23, 1824
Do do	Do	E. Marlborough, Pa.	Feb. 8, 1825
Do do	M. & S. Pennock	Do	Feb. 17, 1827
Do do	Jer. Bailey	Philadelphia, Pa.	Mar. 30, 1827
Do do	Ambrose Foster	Auburn, N. Y.	Dec. 19, 1827
Do do	Samuel Adams	Bridgewater, N. J.	Dec. 28, 1805
Do do	James Ten Eyk	Hallowell, Me.	Nov. 2, 1825
Do do	Samuel Lane	South Carolina	Aug. 8, 1828
Do do	Robert Grant	Pennsylvania	Oct. 17, 1796
Do do	James Dellet	Hallowell, Me.	Dec. 23, 1796
Do do	Samuel Mulliken	Christopher Hoxie	Feb. 20, 1797
Do do	Johnathan Lucas, jun.	John T. Ricketts	Jan. 7, 1803
Do do	John T. Ricketts	Alexander D. Moore	July 12, 1808
Do do	Alexander D. Moore	Jacob Reed	Aug. 8, 1808
Do do	Jacob Reed	Roswell King	Jan. 19, 1809
Do do	Roswell King	John Beck and Jos. Darien, Ga.	June 9, 1809
Do do	John Beck and Jos. Darien, Ga.	Coppinger	Nov. 21, 1809
		Beck's Ferry, S. C.	Mar. 19, 1810

Hartford, Vt.	Mar. 2,	1811
St. Luke's, S. C.	July 5,	1814
Charleston, S. C.	Nov. 6,	1819
New Haven, Ct.	July 28,	1820
Morrisville, Pa.	Oct. 13,	1820
New York	Oct. 12,	1821
New Haven, Ct.	Dec. 5,	1821
Charleston, S. C.	Dec. 21,	1825
New York	Mar. 10,	1826
Winnisborough, S. C.	May 31,	1827
Jersey City, N. J.	Nov. 6,	1827
New York	Feb. 22,	1828
Charleston, S. C.	May 17,	1828
Beaufort, S. C.	July 19,	1828
Charleston, S. C.	April 3,	1829
Jasper co., Ga.	July 7,	1829
Charleston, S. C.	Dec. 16,	1823
New York	Dec. 27,	1815
Chesterburne, N. Y.	Oct. 4,	1817
Albany, N. Y.	Dec. 2,	1814
Union township, N. Y.	Dec. 6,	1814
Lantern Mill, Va.	Oct. 28,	1806
Northumber'l'd co., Va.	Mar. 19,	1812
Hurley, N. Y.	Feb. 10,	1823
Comfort Lane	} Mar. 24,	1825
Suffield, Ct.		
Boston, Mass.		
Fishkill, N. Y.	April 29,	1829
Do	Feb. 21,	1804
Do	May 24,	1805
Brookfield, Ct.	May 20,	1812
Sherman Dewey		
Asa Nourse		
Jona. Lucas		
Maltby Fowler		
Richard French		
Lazarus Ruggles		
Elihu Spencer		
Alexander Shine		
John L. Norton		
John Campbell		
Elijah Wilder		
Edmund Warren		
John Ravenel		
Asa Nourse		
Zenos Bronson		
John L. Norton		
Isaiah Jennings		
Jeremiah Purdy		
Theophilus Eaton		
Jno. Rhodes & Adam		
Rhodes		
William Tullock		
G. McA. Brown		
David S. Buck		
Joshua Leavitt		
Thaddeus Leavitt		
John Nichols		
Thomas Pierce		
Do		
Daniel Tomlinson		
hulling		
pounding		
polishing		
hulling, and grain		
cleaning		
do		
mill, improvement on Keene's		
and coffee-hulling machine		
mill, steam		
Roller, toothed, for preparing ground		
Sap bucket		
Scythe, farmers' carriage		
Do circular		
Seed or grain cleaner		
Do machine for separating by rubbing		
cleaner, universal		
Do separating from cotton		
Sifting grain, flour, &c.		
Smut machine		
Do fanning mill		
Do machine		

INVENTIONS OR DISCOVERIES.

NAMES OF PATENTEES.

RESIDENCE.

WHEN ISSUED.

Smut and garlic, machine for cleaning from wheat

Do and wheat machine
Do machine

Do do

Do or hulling machine

Do machine and scouring machine

Do do

Do do

Do do

Do do

Do do

Do Straw cutter

LIST OF PATENTS—AGRICULTURE—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Threshing machine	Thomas Barnett	Philadelphia, Pa.	Feb. 21, 1804
Do do	James Deneale	Dumfries, Va.	Nov. 20, 1804
Do do	Ben. B. Barnard	Virginia	Nov. 30, 1807
Do do	Simon Willard, Jr.	Hudson, N. Y.	Nov. 30, 1807
Do do	Randall Wallis	Baltimore, Md.	Nov. 9, 1808
Do and winnowing machine	Lawrence Hock	Frederick co., Md.	Feb. 15, 1809
Do machine	Robert Patten	Columbia, Pa.	Feb. 17, 1809
Do and flax dressing machine	Samuel Condon	New Hartford, Ct.	Mar. 3, 1809
Do and cleaning grain machine,	Joseph Coppinger	Baltimore, Md.	Oct. 31, 1809
Do and shelling corn machine,	Asa Cady	Florida, N. Y.	Dec. 27, 1809
Do and cleaning machine	Joseph Comfort	Bucks co., Pa.	Jan. 25, 1810
Do machine	Do	Do	Jan. 25, 1810
Do do	Joseph Beach	Northfield, Mass.	Mar. 30, 1810
Do do	Isiah Jennings	Brookfield, N. Y.	Mar. 30, 1810
Do fanning and cleaning grain from smut machine	Ezra Miller and John Andrews	Westmoreland, N. Y.	Aug. 15, 1810
Do machine	Daniel C. Arnold	Wilmington, N. C.	Dec. 15, 1810
Do do	James W. Walker	New York	Feb. 9, 1811
Do do	R. C. Van Houten	Georgetown, S. C.	Mar. 28, 1811
Do do	Benja. S. Hort	Culpepper co., Va.	Feb. 21, 1812
Do do	William Richards	Bangor, Mass.	Mar. 2, 1812
Do do	Joseph Goulding	Sharon, Ct.	Mar. 19, 1812
Do do	Samuel Skiff	Bucks co., Pa.	Dec. 5, 1812
Do do	John Houpt, Jr.	Woodbury, Ct.	Dec. 14, 1812
Do	J. Judson & J. Hotchkiss		Nov. 27, 1812

do	do	and cleaning grain	Genesee, N. Y.	May 11, 1815
Do	do	and fanning machine	Le Roy, N. Y.	July 29, 1815
Do	do	machine	Brattleborough, Vt.	April 8, 1816
Do	do		Boston, Mass.	Feb. 22, 1817
Do	do			
Do	do		Washington, D. C.	April 12, 1817
Do	do		Albany, N. Y.	Aug. 23, 1817
Do	do		Belfast, Me.	Dec. 23, 1817
Do	do		Matthews co., Va.	Feb. 9, 1818
Do	do		Belfast, Me.	Feb. 18, 1818
Do	do			
Thomas Warner	-	Thomas Beatty and Michael Shanks	Washington, D. C.	Feb. 25, 1818
Abel Dinsmore	-	James Jones, jun.	New Haven, Ct.	Feb. 25, 1818
Elihu Hotchkiss	-	Jas. & Joseph Gregg	Londonderry, N. H.	May 28, 1818
Nathan Read	-	Chester Bullard, J.	Norfolk co., Mass.	Dec. 16, 1818
Thomas Cohoon and William Elliot	-	Gay, & Ira Draper	Baltimore, Md.	Dec. 28, 1818
Silas Smith	-	Thomas Mayfield	Matthews co., Va.	Sept. 8, 1819
Nathan Read	-	Wm. H. Ransome	Piermont, N. H.	April 17, 1819
John Hersey	-	Daniel Youngs	Phelps, N. Y.	June 6, 1820
Nathan Read	-	Ezra Goodell	Pepperhill, Mass.	Aug. 23, 1820
Thomas Beatty and Michael Shanks	-	Asa Shattuck	Londonderry, N. H.	Mar. 30, 1821
James Jones, jun.	-	James Gregg	Brooklyn, N. H.	Sept. 1, 1821
Jas. & Joseph Gregg	-	Benjamin Cumings	Waterbury, Ct.	Sept. 16, 1821
Chester Bullard, J.	-	Michael Morrison	Livermore, Me.	Dec. 12, 1821
Gay, & Ira Draper	-	Seth Ballou	Wheatland, N. Y.	Mar. 28, 1822
Thomas Mayfield	-	Alvin Savage		
Wm. H. Ransome	-	B. & J. Tyler and J.	Windsor, Vt.	April 23, 1822
D. & J. Tyler and J.	-	R. Andrews	New York	April 29, 1822
R. Andrews	-	R. Gillman	Topsham, Me.	July 9, 1822
R. Gillman	-	Major McDonald	Hallowell, Me.	July 30, 1822
Major McDonald	-	Joseph Pope		
Joseph Pope	-			

LIST OF PATENTS—AGRICULTURE—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Thrashing machine	Timothy Howe	Turner, Me.	Dec. 3, 1822
Do do and cleaning grain	N. Mils & J. Rogers	Bath, N. H.	Jan. 14, 1823
Do do	Gideon Reynolds	New York	Jan. 21, 1823
Do grain and cleaning flax	John Carl	Do	Feb. 12, 1823
Do machine and straw cutter	Namon Goodsell	Clinton, N. Y.	Mar. 21, 1823
Do do	Pierson Reading	Trenton, N. J.	April 15, 1823
Do do	Joseph R. Miller	Dryden, N. Y.	April 25, 1823
Do do	William Kirk	Baltimore, Md.	July 22, 1823
Do dc	Charles Smith	New York	Sept. 6, 1823
Do do	Archibald Douglass	Marcellus, N. Y.	Sept. 18, 1823
Do do	William S. Lewis	Pittsylvania, Va.	Oct. 20, 1823
Do do	Benjamin Lovejoy	Augusta, N. Y.	Dec. 31, 1823
Do do	Andrew Noble	Alfred, Me.	Jan. 12, 1824
Do and winnowing machine	Edmund Warren	Augusta, Me.	March 6, 1824
Do and breaking flax and hemp	Gideon Reynolds	New York	July 20, 1824
Do and smut machine	G. Postwick and H. Spencer	Marylandtown, N. Y.	Dec. 24, 1824
Do and cleaning machine	James Hyde	S. Pembroke, N. Y.	Feb. 8, 1825
Do grain and breaking flax	A. & N. Reminton	Genoa, N. Y.	May 19, 1825
Do shelling corn	Pierson Reading	Trenton, N. J.	May 20, 1825
Do machine	Richard Holden	Philadelphia, Pa.	May 20, 1825
Do improvement on Ballou's	J.C. Boyd & A. Kitchen	Rush township, Pa.	June 7, 1825
Do do	William Hoyt	Brookville, Ind.	Sept. 9, 1825
Do do	William Small	Augusta, Me.	Sept. 9, 1825

Renel Howard and J. B. Flagg	Sidney Kennebeck, Me.	Nov. 5, 1825
William Small	Augusta, Me.	Jan. 10, 1826
J. A. Haermanoe	Red Hook, N. Y.	Jan. 16, do
Joseph Potter	Reading, Pa.	Feb. 18, do
D. Hurlbut, N. Etheridge, and J. A. Combs	Herkimer, N. Y. Kennebec, Me.	Feb. 21, do May 10, do
John Shaw	Livermore, Me.	May 25, do
Seth Ballou	Trenton, N. J.	June 3, do
Pierson Reading	Marcellus, N. Y.	Sept. 8, do
Archibald Douglass	Rochester, N. Y.	Nov. 7, do
Sylvanus C. Hersey	Pembroke, N. Y.	Dec. 9, do
James Hyde	Kennett's Square, Pa.	May 26, 1827
Moses Pennock	New York	Aug. 11, do
Edmund Warren	Worthington, Ohio	Aug. 20, do
Peter Barker	Litchfield, Me.	Oct. 5, do
Eb. B. Pike	Amesburg, Mass.	Feb. 9, 1828
David W. Webster	Charleston, S. C.	Feb. 18, do
Elias B. Hoyt	Uniontown, Md.	Mar. 3, do
Michael First	Springfield, N. Y.	Mar. 6, do
William Loomis	Aurelius, N. Y.	April 10, do
John H. Bennett	New York	April 17, do
Calvin Emmons	North Granville, Ohio	May 23, do
Norton Case	Killbuck, Ohio	July 22, do
Samson Felton	Nantucket, Mass.	Aug. 5, do
Matthew Barney	Philadelphia, Pa.	Oct. 10, do
John W. Post and J. Ryan	New Baltimore, Va.	Nov. 1, do
Samuel S. Allen	Skeneatelas, N. Y.	Jan. 9, 1829
James S. Wood	Botetourt co., Va.	

LIST OF PATENTS—AGRICULTURE—Continued.

INVENTIONS OR DISCOVERIES	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Thrashing machine	George Fuller	Gardiner, Me.	June 11, 1829
Do do	Calvin Emmons	New York	July 27,
Do do	Enoch Harman	Upper Wakefield, Pa.	do
Do do	James S. Wood	Pattensburg, Va.	August 5,
Do do	Thomas G. Owen	Baltimore, Md.	Sept. 10,
Do do	William Barnes	Brookhaven, N. Y.	Nov. 26,
Do do	John Haws	Hudson, N. Y.	Dec. 14,
Do do	Apollos Kinsley	Connecticut	Dec. 31,
Tobacco, machine for cutting	Peter Lorillard	New York	Aug. 12, 1797
Do do	John Robinson	Charlotte, Va.	June 28, 1800
Do curing	Edmund Pendleton	Louisa co., Va.	Feb. 25, 1809
Do do and drying	Martin & Thos. Baker	Do	Dec. 18, 1826
Do tables for drying cut	George Campbell	Schenectady, N. Y.	March 4, 1828
Trees, fruit, preventing their destruction by worms	Paul Adams	Newbury, Mass.	Jan. 7, 1829
Trees, preventing canker worm in	Jonas Kendall	Leominster, Mass.	June 19, 1812
Wheelbarrows	Jeremiah Brainerd	Rome, N. Y.	Jan. 4, 1816
Do	Nathan Tufts, 2d	Charlestown, Mass.	Aug. 26, 1819
Do	Jirch Rowley	Pittsford, N. Y.	Sept. 13, 1824
Wheat rubber	James Deneale	Dunsfries, Va.	Nov. 1, 1825
Wheat cutting machine	William P. Claiborne	King William co., Va.	July 1, 1809
Do rubbing	John D. Richards	Middleburg, Va.	Nov. 8, 1811
Do cleaning	William Davis	Fairfield, Ct.	Feb. 27, 1812
Do machine for washing, drying, and screening	Samuel Martin and	-	Jan. 24, 1815
Do	Zad. Chapin	Ontario co., N. Y.	Jan. 18, 1820
Do	Jedediah Tallman	Oneida co., N. Y.	May 8, 1882

Wheat, machine for cutting	-
Winnowing grain	-
Do tub mill	-
Do machine	-
Do	-
Do and thrashing grain	-
Do, horse	-
Yoke	-

LIST OF PATENTEES—AGRICULTURE.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.	[REDACTED]			
				[REDACTED]			
Allen, Adolphus	Troy, Pa.	Cattle, machine for watering	July 10, 1824	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Arnold, Samuel	Botetourt, Va.	Clover seed machine	Jan. 25, 1815	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Abbey, Roswell	New York	Coffee hulling machine	Jan. 1, 1825	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Adams, William	Virginia	Fan, wheat	March 1, 1816	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Atwell, Benjamin	Burlington, N. Y.	Fanning mill	Sept. 19, 1808	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Achey, Samuel	Heidelberg twnsh., Pa.	Flax, swinging	Feb. 18, 1828	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Armitied, William	Pr. William co., Va.	Fly, Hessian, or weavel in wheat, mode of destroying	Nov. 13, 1810	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Armat, Thomas	Philadelphia, Pa.	Hay and cattle, machine for weighing	May 10, 1811	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Avery, George D.	Wood co., V.a.	Plough	Dec. 28, 1818	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Austin, Solomon	Sempromius, N. Y.	Do improvement on Wood's	Feb. 27, 1824	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Altison, Thomas	Newton, N. J.	Do cast iron	April 16, 1824	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Avery, George D.	Georgetown, D. C.	Plough, cast iron	Feb. 15, 1825
Do	Do	Do	Mar. 25, 1825
Adams, Samuel	-	Reaping machine	Dec. 28, 1805
Ayres, Wm., and Herman Gay	Windsor, Vt.	Straw cutter	Aug. 13, 1817
Arnold, Daniel C.	-	Threshing machine	Dec. 15, 1810
Allen, Samuel S.	Skeneatelas, N. Y.	Do do	Nov. 1, 1828
Adams, Paul	Newbury, Mass.	Trees, fruit, preventing their destruction by worms	June 19, 1812
Allen, Adolphus	Troy, N. Y.	Yoke, horse	June 29, 1827
Badger, Willard	Boston, Mass.	Apples, machine for paring, coring, and quartering	Feb. 16, 1809
Blake, Edward	Hartford, Me.	Bee hive	Nov. 16, 1820
Berkeymeger, F., and J. Dangler	Greenwich, Pa.	Cabbage, machine for cutting	Nov. 14, 1826
Buckman, David	Pennsylvania	Clover seed and wheat cleaner	Dec. 21, 1803
Bliss, Moses B.	Pittston, Me.	Cider mill	April 21, 1829
Bottom, John	Warren, N. Y.	Clover seed machine	Jan. 28, 1822
Bolton, John	Do	Do mill	Jan. 9, 1823
Burrell, Thomas D.	Geneva, N. Y.	Do machine	June 5, 1823
Bushnell, Howlet	Norwich, Ct.	Corn husking machine	Nov. 14, 1826
Bulkley, Chauncey	Manchester, Vt.	Do sheller	May 25, 1824
Bailey, Amon	Poulney, Vt.	Do do	Nov. 1, 1825
Brown, John	Providence, R. I.	Do do	Mar. 18, 1828
Bell, William and S.	Georgia	Cotton gin	April 7, 1802
D. Montmollen	Do	Do do	March 7, 1803

Bell, William	Pennsylvania	Do	do	Nov. 24, 1803
Barnes, Isaac B.	Beaufort, S. C.	Do	do	Nov. 6, 1826
Babcock, Isaac	Rensselaerville, N. Y.	Cradle for grain	-	Mar. 24, 1823
Beach, William	Philadelphia, Pa.	Cultivator, tooth for	-	Nov. 8, 1825
Beach, Waldren	Do	do and harrows	-	April 13, 1826
Barref, Oliver, jun.	Sandy Hill, N. Y.	Fanning mill	-	Mar. 23, 1808
Barnum, Thomas S.	Sharon, Ct.	Do	-	Jan. 15, 1812
Beecher, Benja. D.	New Haven, Ct.	Do	-	May 30, 1816
Barlow, Jonathan	Granville, Mass.	Flax dressing	-	Aug. 23, 1809
Burdick, Francis	Kortright, N. Y.	Do dresser	-	Feb. 28, 1825
Briggs, Joseph	Schoharie, N. Y.	Do breaking and dressing, threshing and grinding grain	-	Oct. 5, 1825
Betts, Hezekiah	Connecticut	Do and hemp machine	-	May 3, 1802
Button, Richard	Cazenovia, N. Y.	Do do	-	Feb. 11, 1807
Benton, C. & W. A.	Amenia, N. Y.	Do wheel for dressing	-	May 22, 1816
Burden, Henry	Albany, N. Y.	Do machine	-	June 15, 1822
Barnum, T. S. & A.	New York	Do do	-	Nov. 27, 1824
Barnum, H. L., & M.	Stephenson.	Do do	-	July 8, 1829
Baker, Peter	Cambridge, N. Y.	Grass and grain, machine for mowing	-	Feb. 19, 1814
Bailey, Jeremiah	Long Island, N. Y.	Do do	-	Feb. 13, 1822
Bliss, Moses B.	Chester co., Pa.	Hay, machine for pressing	-	June 26, 1828
Bulkley, Chauncey	Pittstown, Me.	Hoes, cast steel	-	Jan. 10, 1827
Black, James A.	Colchester, Ct.	Do weeding and others	-	Oct. 13, 1828
Blake, Thatcher	Columbia, S. C.	Hulling grass seed	-	July 12, 1822
Barret, Nathaniel	Paris, Me.	Hulling grain	-	Aug. 21, 1823
Bowman, James	Paris, N. Y.	Manuring wagon	-	Aug. 12, 1822
Beecher, John	Coosawatchie, S. C.	Planting machine for corn, &c.	-	Mar. 18, 1809
Blocher, John	Lycoming co., Pa.	Do do	-	April 12, 1814
Buller, John & Joshua	Lancaster, Pa.	Plough, bar share	-	Mar. 1, 1814
Bean, Elisha	Brandywine & Chester co., Pa.	Do for dressing corn	-	Mar. 4, 1816
	Massachusetts		-	

LIST OF PATENTEES—AGRICULTURE—Continued.

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NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Bergen, Cornelius	Brooklyn, N. Y.	Plough	Nov. 11, 1819
Balthrope, John	Loudoun co., Va.	Do double shovel	Sept. 20, 1820
Beach, Waldren	Philadelphia, Pa.	Do self-sharpening	Aug. 26, 1823
Do	Do	do	April. 9, 1824
Beach, William	Do	Do	June 27, 1827
Boatwright, James	Columbia, S. C.	Do	June 11, 1829
Boynton, John	South Coventry, Ct.	Do iron	July 10, 1829
Brown, Thomas	New York	Do	Sept. 11, 1829
Bailey, Jer.	Philadelphia, Pa.	Rake, hay, horse	Mar. 30, 1827
Beck, John, & Joseph	Beck's Ferry, S. C.	Rice, machine for beating out	Mar. 19, 1810
Coppinger	Jasper co., Ga.	Rice and coffee hulling machine	July 7, 1829
Bronson, Zenas	Northumber'l'd co., Va.	Seed, machine for separating and rubbing	May 19, 1812
Brown, Geo. McA.	Hurley, N. Y.	Seed cleaver, universal	Feb. 10, 1823
Buck, David S.	Cheshire, Mass.	Straw cutter	Dec. 5, 1817
Brayton, A., & H. C.	Weston, Mass.	Do do	Feb. 13, 1818
Green	Guildford co., N. C.	Do do	Feb. 6, 1827
Bigelow, Alpheus	Virginia	Thrashing machine	Mar. 11, 1797
Benbow, Thomas	Philadelphia, Pa.	Do do	Feb. 21, 1804
Booker, William	Virginia	Do do	Nov. 30, 1807
Barnett, Thomas	Northfield, Mass.	Do do	Mar. 30, 1810
Bernard, Benja. B.	Washington, D. C.	Do do	Feb. 25, 1818
Beach, Joseph			
Beatty, Thomas, and			
Michael Shanks			

Bullard, C., J. Gay, &	Norfolk co., Mass.	Dec. 16, 1818
Ira Draper	Livermore, Me.	Dec. 12, 1821
Ballou, Seth	Worthington, Ohio	Do
Bostwick, G., and H.	Aurelius, N. Y.	Do
Spencer	Marylandtown, N. Y.	Do
Boyd, J. C., and A.	Rushtown, Pa.	Do
Kitchen	Livermore, Me.	do
Ballou, Seth	Worthington, Ohio	do
Barker, Peter	Aurelius, N. Y.	do
Bennett, John H.	Nantucket, Mass.	do
Barney, Matthew	Brookhaven, N. Y.	do
Barnes, William	Louisa co., Va.	do
Baker, Martin & Thos.	Rome, N. Y.	Tobacco curing
Brainard, Jer.	Washington, D. C.	Wheelbarrow
Beatty, Thomas	Baltimore, Md.	Winnowing machine
Bromwell, Isaac	New London, N. H.	do
Browne, Josiah	Wallingford, Ct.	do
Beadle, Henry	Pennsylvania	Apples, machine for paring
Coates, Moses	Guilford, Ct.	do
Cruttenden, Stephen	Buckfield, Me.	do
Churchill, Bela	New York	grinding
Cumberland, William	Pennsylvania	Bleaching unrotted flax or hemp
Cottle, John	New Hartford, Ct.	Clover seed, machine for cleaning
Condon, Samuel	New York	do
Crooker, Benjamin	Charleston, S. C.	do
Crawford, Obed	Bridgewater, Mass.	Corn sheller
Cruse, Englehart	Do	Cotton gin
Carver, Eleazer, jun.	Do	do
Do	do	saw and grates for
Conn, S. T.	New York	do
Cobb, Isaac	Westminster, Vt.	Cultivator tooth

LIST OF PATENTEES—AGRICULTURE—Continued.

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NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Cannon, John	Delaware	Flax breaking machine	Jan. 17, 1801
Cohon, Thomas	Cazenovia, N. Y.	Flax and hemp machine	April 13, 1808
Chappel, R. S.	Pawlett, N. Y.	Do do do	Jan. 18, 1809
Cumberland, Wm.	New York	Do do do	July 9, 1822
Do	Do	Do unrotted	Nov. 29, 1822
Cox, Frederick	Somerville, N. J.	Do do do	Dec. 4, 1823
Chinn, Achilles	Harrison co., Ken.	Do do rotting by steam	Dec. 28, 1825
Christian, Evans	Philadelphia, N. Y.	Do do machine	Feb. 8, 1828
Cohon, Thomas	Troy, N. Y.	Do do	April 25, 1829
Cherry, Geo. W.	Derby, Ct.	Garden, geographical	May 27, 1825
Child, Holland	Canton, Me.	Grain, cleaning	Jan. 11, 1823
Comfort, John	Bucks co., Pa.	Grass and grain, machine for cutting	Feb. 26, 1811
Cope, Ezra, & T. Hooper, jun.	Chester co., Pa.	Do do do mowing	May 18, 1825
Carmichael, Wm.	Sand Lake, N. Y.	Hoes, horse, iron, for ploughing and weeding grain	July 28, 1827
Cheatham, Jona.	Providence Inn, Va.	Do harrow and plough	July 31, 1827
Campbell, Robert	Martinsburg, Va.	Hominy mill	April 9, 1827
Cooley, David, jun.	Orange co., N. Y.	Horses and cattle, mode of breaking	June 23, 1810
Cock, Townsend	New York	Do training and breaking	March 1, 1811
Carman, Avon	Hyde Park, N. Y.	Do mode of improving the shape, &c.	Nov. 27, 1828
Cocke, Andrew	Flushing, N. Y.	Planting machine for corn	Mar. 20, 1821
Chenoweth, R. B.	Baltimore, Md.	Plough	Nov. 25, 1808
Cromwell, John	Roysterstown, Md.	Do double share	Oct. 23, 1816
Carpenter, Bailey	Somerstown, N. Y.	Do	July 1, 1822
Clute, Peter J.	Schenectady, N. Y.	Do	Nov. 16, 1822

Chase, D., and A. & I.	Palmyra, N. Y.	Do	cast iron	August 4, 1824
Gregg	Luzerne township, Pa.	Do	-	April 28, 1826
Cooke, William	Wentworth, N. C.	Do	twin	Mar. 24, 1827
Cryer, Noble G.	Beaufort, S. C.	Do	-	Nov. 23, 1809
Coppinger, Joseph	New York	Do	Preserving animal and vegetable substances	Oct. 24, 1814
Cooley, David	Winnborough, S. C.	Do	or do	May 31, 1827
Campbell, John	Marcellus, N. Y.	Rice, machine for cleaning and hulling	do	August 7, 1821
Cooke, Stephens	Elmira, N. Y.	Smut or hulling machine	do	Dec. 4, 1828
Carpenter, Townsend	Philadelphia, Pa.	Smut machine	-	-
Coates, Moses, & Evan	Franklin co., Pa.	Straw cutter	April 30, 1804	-
Evans	Portsmouth, N. H.	Do	July 18, 1807	-
Cleaveland, Josiah	Morristown, N. J.	Do	July 20, 1807	-
Conner, Benjamin	Amenia, N. Y.	Do	June 26, 1807	-
Canfield, Richard	Livingston co., N. Y.	and corn sheller	Mar. 15, 1827	-
Chamberlain, Calvin	New Hartford, Ct.	Do	Feb. 11, 1828	-
Cummings, Warren	Baltimore, Md.	Thrashing and flax dressing machine	Mar. 3, 1809	-
Condon, Samuel	Florida, N. Y.	and cleaning grain	Oct. 31, 1809	-
Coppinger, J.	Bucks co., Pa.	Do	Dec. 27, 1809	-
Eady, Asa	Do	and shelling corn	Jan. 25, 1810	-
Comfort, Joseph	Do	and cleaning machine	Jan. 25, 1810	-
Do	Do	machine	Do	-
Cohoon, Thomas, and	Washington, D. C.	Do	April 12, 1817	-
Wm. Elliot	Brooklyn, N. H.	Do	Sept. 1, 1821	-
Cummings, Benja.	New York	Do	Feb. 12, 1823	-
Carl, John	North Granville, O.	Do	May 23, 1828	-
Case, Norton	Schenectady, N. Y.	Tobacco, tables for drying cut	Jan. 7, 1829	-
Campbell, George	King William co., Va.	Wheat cutting machine	Nov. 8, 1811	-
Claiborne, Wm. P.	New Milford, N. Y.	Apples, grinding	Jan. 14, 1829	-
Demarest, David D.	Guildford, N. C.	Corn-sheller, improvement on Pilsbury's	June 15, 1826	-
Dodson, Jer.	Virgin, N. Y.	Dq	Dec. 8, 1828	-
Dean, Thomas I.				

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Dodge, Samuel	Cleaveland, Ohio	Fanning mill	Feb. 9, 1808
Donoghoe, Daniel	New York	Do	April 16, 1821
Davidson, Samuel	Romulus, N. Y.	Flax breaking	May 17, 1822
Dana, J. A.	Cazenovia, N. Y.	Do and hemp machine	July 23, 1811
Davidson, Wm. C.	Pittsford, N. Y.	Do do	June 22, 1824
Dodge, David	Hamilton, Mass.	Oil, extracting from flax seed	May 14, 1827
Deaver, John	Baltimore, Md.	Plough	July 12, 1804
Davis, Gideon	Sandy Spring, Md.	Do	May 26, 1818
Ducher, Josiah	Durham, N. Y.	Do cast iron	Feb. 12, 1822
Davis, Gideon	Georgetown, D. C.	Do	Oct. 1, 1825
Dolfer, George	Fredericktown, Md.	Do right and left	Aug. 20, 1827
Deats, John	Middletown, Pa.	Do	April 26, 1828
Deakyns, John	Petersburg, Va.	Do bar share	Nov. 18, 1828
Daggett, Ezra, and T. Kensett	New York	Preserving animal substances	Jan. 19, 1825
Dellet, James	Pennsylvania	Rice, machine for cleaning	Dec. 23, 1796
Dewey, Sherman	Hartford, Vt.	Do hulling	Mar. 2, 1811
Dayton, Giles	Springfield, Mass.	Straw cutter	Mar. 18, 1819
Durham, Laban, and J. S. Pleasants	Halifax co., Va.	Do do	July 27, 1827
Deneale, James	Dumfries, V.a.	Threshing machine	Nov. 20, 1804
Dinsmore, Abel	Le Roy, N. Y.	Do do and cleaning grain	July 29, 1815
Douglass, Archibald	Marcellus, N. Y.	Do do	Sept. 18, 1823
Do	Do	Do and cleaning machine	Sept. 8, 1826
Deneale, James	Dumfries, V.a.	Wheat rubber	July 1, 1809

Davis, William	Fairfield, Ct.	Wheat, cleaning	Jan. 24, 1815
Davis, E. P., and W. Carey	Riga, N. Y.	Winnowing machine and threshing grain	June 11, 1829
Emmons, Uri	New York	Apples, machine for grating	Feb. 13, 1828
Do	Glasgow, Ky.	Cider mill and press, horse power	Jan. 31, 1829
Eusbank, J., jun.	Pennsylvania	Cotton gin feeder	July 29, 1828
Eve, Joseph	New Jersey	Cotton, separating seed	Dec. 6, 1803
Ellis, William	Madison co. Ala.	Malt, washing	June 18, 1799
Ellington, Garland	Philadelphia, Pa.	Plough	Dec. 25, 1824
Evans, O. & C.	Pike Creek, Md.	Plough, self-sharpening	April 14, 1825
Edmonston, Thomas	Albany, N. Y.	Preserving butter, eggs, &c.	April 26, 1827
Eaton, T.	Baltimore, Md.	Sythe, farmers' carriage	Dec. 2, 1814
Eastman, John S.	Massachusetts	Straw cutter	Jan. 29, 1822
Elliot, Richard R.	New York	Thrashing machine	Nov. 16, 1797
Emmons, Calvin	Do	Do	April 17, 1828
Do	Concord, N. H.	Do	July 27, 1829
Elliot, Moses	Tioga, N. Y.	Winnowing tub mill	May 18, 1816
Farnham, Joel	Rockland, V.a.	Apples, machine for grinding	June 28, 1825
Fuller, Jacob	Petersburg, V.a.	Corn sheller	Mar. 19, 1816
Follet, Francis	Do	Cotton, separating seed	Jan. 21, 1829
Do	Homer, N. Y.	Do	Dec. 15, 1829
Fitch, Samuel	Southampton, Mass.	Fanning mill	Oct. 29, 1814
Frary, Justus	York, Pa.	Do	Feb. 17, 1829
Fettroy, Andrew	Ridgefield, Ct.	Grain, cleaning	May 28, 1818
Forrester, Lot	New Jersey	Do	Feb. 13, 1824
French, Richard, and J. T. Hawkins	New York	Grass and grain, machine for cutting	May 17, 1803
Freeborn, Gideon	Painesville, V.a.	Hoes	July 7, 1829
Ford, Christopher	St. Johnsbury, Vt.	Planting machine for cotton	May 26, 1825
Fairbanks, Thaddeus	Auburn, N. Y.	Plough, cast iron	April 19, 1826
Foster, Ambrose		Rake, hay, hand	Dec. 19, 1827

LIST OF PATENTEE—AGRICULTURE—Continued.

NAMES OF PATENTEE.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Fowler, Malthy	New Haven, Ct.	Rice, machine for hulling and grain	July 28, 1820
French, Richard	Morrisville, Pa.	Do do cleaning	Oct. 13, 1820
First, Michael	Uniontown, Md.	Thrashing machine	Mar. 3, 1828
Felton, Samson	Killbuck, Ohio	Do do called the universal drub	July 22, 1828
Fuller, George	Gardiner, Me.	Do do	June 11, 1829
Gates, Cyrus	Rutland, Vt.	Apples, machine for coring and quartering	Dec. 15, 1810
Glendenning, Andrew	Loudoun co., Va.	Do do cutting	Sept. 9, 1823
Gannett, Samuel H.	Greenville, Tenn.	Corn crusher	May 25, 1827
Gallagher, Hugh	Pittsburg, Pa.	Do sheller, improvement on Phinney's	Oct. 29, 1818
Guthrie, Rufus	Brimfield, Mass.	Do do Janes'	Jan. 18, 1820
Grosjean, Philip	Louisville, Ky.	Do do	July 29, 1828
Gardiner, J. S.	Canandaigua, N. Y.	Do do	June 11, 1829
Glendenning, Andrew	Butler co., Pa.	Do stalks, machine for cutting	Sept. 25, 1823
Gilliam, Amos	Reedy Fork, S. C.	Cotton cleaner	Oct. 16, 1829
Gould, William	McIntosh co., Ga.	Do gin, foot	Feb. 28, 1821
Gillet, Daniel	Springfield, Mass.	Do seed, preparing for food	Sept. 15, 1819
Goodsell, Namon	Paris, N. Y.	Flax and hemp machine	Sept. 19, 1822
Gillman, Reynolds	New York	breaking and shelling corn	Nov. 5, 1824
Gaultry, Paul	Do	Do do	April 24, 1804
Gailhard, Peter	Lancaster co., Pa.	Flax seed, machine for cleaning	Dec. 4, 1812
Gebhard, John G.	New York	Grass and grain, machine for mowing	Feb. 4, 1800
Goodrich, Samuel, and	Hudson, N. Y.	Oil, extracting from palma christi	Dec. 3, 1818
John Adams	New York	Plough	March 8, 1820
Gibbs, George		Do	

Gill, C. G., and James Gill, (B. O.)	Chester, S. C.	Do	Mar. 25, 1822
Gibson, John	Montgomery co., N.Y.	Do	May 2, 1822
Gillet, Nath'l, jun.	Tallmadge township, O.	Do	Sept. 24, 1824
Gordon, John	Copeck, N. Y.	Do	Jan. 13, 1829
Grant, Robert	South Carolina	Rice, machine for scouring	Oct. 17, 1796
Gillespie, James	Middletown, Md.	Smut machine	Aug. 23, 1820
Greane, Lemuel	Greene co., Ga.	Straw cutter	Dec. 21, 1819
Golding, Joseph	Bangor, Mass.	Threshing machine	Mar. 19, 1812
Gregg, James & Joseph	Londonderry, N. H.	Do	May 28, 1818
Goodell, Ezra	Phelps, N. Y.	Do	June 6, 1820
Gregg, James	Londonderry, N. H.	Do	Mar. 30, 1821
Gilman, R.	New York	Do	April 29, 1822
Goodsell, Naman	Clinton, N. Y.	Do	Mar. 21, 1823
Hart, Amos	Whartontownsh., Pa.	Apples, fruit, and roots, preserving	Aug. 10, 1829
Haskins, Isaac H.	Columbia, N. Y.	Clover seed machine	May 6, 1824
Heavin, John	Frederickktown, Md.	Corn sheller	May 8, 1810
Hubbard, Hiram	Palmyra, N. Y.	Do	June 17, 1824
Humphreys, Robert	Harpersfield, N. Y.	riddling and fanning machine	Dec. 24, 1824
Hawley, Wm. C.	New York	Do	June 22, 1825
Hoxie, Christo. C.	Hudson, N. Y.	Do	Dec. 8, 1825
Hoyt, William	Vernon, Ind.	Do	April 29, 1828
Hill, Charles	Essex co., Va.	Corn weeding machine	July 7, 1814
Holmes, Hodgen	Georgia	Cotton gin	May 12, 1796
Hancock, R., sen., and Edw. W. Carr	Philadelphia, Pa.	Do	Feb. 6, 1811
Hall, James	-	Cultivator	Nov. 19, 1814
Hubbard, Stephen, and Joseph Graves	Wilmington, Vt.	Do	June 21, 1823
Herbert, Richard	Williamson co., Tenn.	Do	April 19, 1828
Houston, Samuel	Virginia	Fan, wheat, threshing, &c.	May 3, 1804

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Hoffman, George	Fredericktown, Md.	Fan, wheat, thrashing, &c.	Aug. 21, 1829
Haws, John	Hudson, N. Y.	Flax dressing	June 19, 1812
Hines, Joseph, & Wm. Bain	New York	Do do	-
Hill, Eli F.	Fabius, N. Y.	Flax and hemp machine	Aug. 12, 1826
Harper, William	Richmond, Va.	Do do	Feb. 11, 1809
Hall, Francis	Tennessee	Do do	Oct. 15, 1811
Hines, Joseph, & Wm. Bain	Columbus, Ohio	Do do do	Oct. 7, 1813
Hook, Asa	Searmont, Me.	Flax seed, machine for cleaning	Feb. 3, 1823
Honeywell, Israel	Hillsdale, N. Y.	Grain, cleaning	Sept. 9, 1823
Hopkins, H. & J. Pratt	Pompey, N. Y.	Harrow, self-sharpening	April 27, 1816
Houpt, Sebastian	Philadelphia, Pa.	Hulling machine, cylindrical	Nov. 9, 1824
Hart, William J.	Tallmadge, Ohio	Do grain	Nov. 16, 1812
Harper, George	Jenkinstown, Pa.	Planting machine for potatoes	May 21, 1824
Harris, Hezekiah	Bullitt, Ky.	Plough	Mar. 23, 1818
Hall, Stephen	Boston, Mass.	Do draining	Feb. 24, 1808
Harrison, Richard N.	New York	Do	July 13, 1810
Harris, Zadock	Hartford, N. Y.	Do	Dec. 19, 1818
Hitchcock, David	New York	Do cast iron	Mar. 17, 1819
Hawkins, G. W., and H. Emery	Windsor co., Vt.	Do do	Dec. 29, 1821
Hitchcock, David	New York	Do	Feb. 16, 1822
Hackney, Obed	Lebanon, Ohio	Do	July 16, 1823
Hunt, James Y.	Tunbridge, Vt.	Do	Aug. 29, 1823
			Dec. 14, 1824

Holbridge, Z. S., and H. S. Lawson	Berne, N. Y.	Do	Aug. 9, 1826
Howard, Charles	Hingham, Mass.	Do	Mar. 10, 1828
Hart, Ezra	Berlin, Ct.	Rake for collecting apples	Dec. 31, 1812
Hance, Thomas C.	Palmyra, N. Y.	Do hay	June 25, 1821
Hoopes, Henry, & Ezra Hoopes	Wilmington, Del.	Do revolving Rice, machine for hulling	July 26, 1824
Hoxie, Christopher	New York	Straw cutter	Jan. 7, 1803
Heavin, John	Montgomery co., Va.	Do	April 17, 1806
Hotchkiss, Elihu	Brattleborough, Vt.	Do	Aug. 2, 1808
Haskell, Roger	Burlington, N. Y.	Do	May 25, 1809
Hotchkiss, Elihu	Brattleborough, Vt.	Do	Jan. 18, 1817
Hall, Benja. A., and Chauncey Hall	Middletown, Ct.	Do	Nov. 7, 1825
Hodgson, William	Virginia	Threshing machine	April 28, 1794
Hoxie, Christopher	New York	Do	Aug. 20, 1801
Hock, Lawrence	Frederick co., Md.	Do and winnowing machine	Feb. 15, 1809
Hoot, Benja. T.	Georgetown, S. C.	Do machine	Feb. 21, 1812
Houpt, John, jun.	Bucks co., Pa.	Do do	Dec. 14, 1812
Hotchkiss, Elihu	Brattleborough, Vt.	Do do	April 8, 1816
Hersey, John	Matthews co., Va.	Do do	Feb. 9, 1818
Howe, Timothy	Turner, Me.	Do do	Dec. 3, 1822
Hyde, James	South Pembroke, N.Y.	Do and cleaning machine	Feb. 8, 1825
Holden, Richard	Philadelphia, Pa.	Do machine	May 20, 1825
Hoyt, William	Brookville, Ind.	Do do	Sept. 9, 1825
Howard, Reuel, & J. B.	Sidney, Me.	Do	Sept. 5, 1825
Flagg	Kennebeck, Me.	Do	Jan. 16, 1826
Heermance, Jac. A.	Red Hook, N. Y.	Do	Feb. 21, 1826
Hulbert, D., & N. Etheridge, & J. A. Combs	Herkimer, N. Y.	Do	Nov. 7, 1826
Hersey, Sylvanus C.	Rochester, N. Y.	Do and winnowing machine	

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Hyde, James	Pembroke, N. Y.	Thrashing machine	Dec. 9, 1826
Hoit, Elias B.	Charleston, S. C.	Do	Feb. 18, 1828
Harman, Enoch	Upper Wakefield, Pa.	Do	Aug. 5, 1829
Haws, John	Hudson, N. Y.	Do	Dec. 31, 1829
Janes, Walter	Ashford, Ct.	Corn sheller	May 6, 1819
Jennings, Isaiah	New York	Cotton gin	Dec. 27, 1815
Do	Do	Do	Jan. 17, 1817
Jessup, Thos. W.	Fredericktown, Md.	Fanning mill	June 18, 1811
Johnson, John C.	Fayette co., Ky.	Flax and hemp machine	May 16, 1811
Janes, Seth	Do	Horses' ears, mode of setting	Dec. 31, 1804
Johnson, Luke	Leominster, Mass.	Plough, machine for drawing	Aug. 6, 1816
Jenkins, John W.	Hudson, N. Y.	Do	July 6, 1820
Jones, D. H., and W.	Palmyra, N. Y.	Do cutters and points for	July 29, 1828
F. Richardson	New Hampshire	Preserving butter	June 30, 1797
Johnson, Moses	New Haven, Ct.	Pruning shears	July 13, 1809
Jocelyn, Simeon	New York	Roller, toothed, for preparing ground	Dec. 27, 1815
Jenning, Isaiah	Brookfield, N. Y.	Threshing machine	Mar. 30, 1810
Do	Woodbury, Ct.	Do	Nov. 27, 1812
Judson, J., & J. Hotchkiss	New Haven, Ct.	Do	Feb. 25, 1818
Johnes, James, jr.	Plymouth, Mass.	Winnowing grain	May 4, 1813
James, John, 3d	New Holland, Pa.	Apples, machine for cutting, also potatoes, turnips, &c.	April 28, 1818
Kling, William	Lockport, N. Y.	Bees, management of	Aug. 26, 1828
Kelsey, F.	York, Pa.	Clover seed, machine for clearing	July 28, 1803
Kirk, Timothy			

Knox, Peter	Augusta, Ga.	Cotton gin, propelling	Dec. 7, 1826
Kellogg, Erastus	Palmyra, N. Y.	Flax and hemp machine	May 11, 1824
Kelsey, Franklin	Middletown, Ct.	Do do	Nov. 26, 1824
Kimball, Ephraim	Fitchburg, Mass.	Hoes	April 3, 1819
Klay, John	Fredericktown, Md.	Plough	Jan. 11, 1812
King, George J.	Red Hook, N. Y.	Do cast iron	June 20, 1821
King, Roswell	Darien, Ga.	Rice, machine for cleaning	Nov. 21, 1809
Kirk, William	Baltimore, Md.	Thrashing machine	July 22, 1823
Kinsley, Apollos	Connecticut	Tobacco, machine for cutting	Aug. 12, 1797
Kendall, Jonas	Leominster, Mass.	Trees, preventing canker worm in	Jan. 4, 1816
Loomis, William	Ashford, Ct.	Clover seed machine	April 27, 1822
Lindsay, Noah	Catskill, N. Y.	Corn sheller	Mar. 28, 1821
Little, Alverson	Columbia, Ct.	Do	Dec. 23, 1824
Lane, Samuel	Hallowell, Me.	Do	Sept. 9, 1825
Lewis, Benjamin	Ligonie, Me.	Flax and hemp machine	Jan. 28, 1824
Lawrence, Christian	Chatham, N. Y.	Fork, hay and dung	July 26, 1823
Litzenbørger, John	Philadelphia, Pa.	Grain, cleaning and scouring	Nov. 24, 1823
Lineback, John	Salem, N. C.	Hulling cotton seed	Mar. 31, 1814
Lobdell, John	Warren co., Mi.	Planting corn, cotton, &c.	Dec. 26, 1826
Lenox, Matthew, Wm.	Steubenville, O.	Do	Jan. 26, 1829
Croft, & H. Pitner	Harrisburg, N. Y.	Do machine for seeds	Sept. 21, 1829
Lane, Zebina	Virginia	Plough, angular	July 31, 1817
Lupton, John	West Chester, N. Y.	Do	July 22, 1822
Lee, Abijah	Knox co., Ohio	Do	Mar. 8, 1828
Loveridge, Richard	Hallowell, Me.	Reaping machine	Aug. 8, 1828
Lane, Samuel	Charleston, S. C.	Rice, machine for cleaning	July 12, 1808
Lucas, Jona., jun.	Do	Do polishing	Nov. 6, 1819
Leavitt, Joshua, and T.	Comfort Lane	Seed, separating from cotton	Mar. 24, 1825
Leavitt	Suffield, Ct.	Thrashing machine and grinding grain	Oct. 20, 1823
Lewis, William S.	Pittsylvania, Va.		

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Lovejoy, Benjamin	Augusta, N. Y.	Thrashing machine and cleaning grain	Dec. 31, 1823
Loomis, William	Springfield, N. Y.	Do	March 6, 1828
Lorillard, Peter	New York	Tobacco, machine for cutting	June 28, 1800
Moore, Camm	Guilford co., N. C.	Apples, machine for grating, corn, &c.	Dec. 30, 1826
Mosher, R. & A.	Galway, N. Y.	Do paring machine	Dec. 31, 1829
Moore, Robert	Rowan co., N. C.	Buds, delaying from blossoming	Mar. 16, 1822
Morris, Anson	Sacket's Harbor, N. Y.	Cheese curd, machine for cutting	May 2, 1829
Miller, Martin	Pennsylvania	Clover seed, machine for cleaning	July 19, 1802
Moon, John	Falls township, Pa.	Corn sheller	April 20, 1824
Moon, John	Morrisville, Pa.	Do	June 27, 1825
Murray, John	Georgia	Cotton gin	Dec. 23, 1796
McBride, John	Nashville, Tenn.	Do	Aug. 8, 1805
Miner, Frederick	New London, Ct.	Cultivator, American	Aug. 21, 1819
Marquam, Edward	-	Fan house	Mar. 28, 1803
Mulliken, Samuel	Philadelphia, Pa.	Flax dressing and breaking	Mar. 11, 1791
Mack, Elisha	Pennsylvania	Do	Mar. 21, 1806
Mulliken, Samuel	Lexington, Ky.	Do and hemp machine	Jan. 15, 1795
Mulliken, Samuel	Kent, Ct.	Do do do	July 13, 1811
Miller, Robert	Newport, R. I.	Do do do	May 6, 1813
Millard, Ira	New York	Do do do	Nov. 18, 1818
Melville, David	Do	Do do do	Aug. 31, 1822
Macdonald, James	Bloomfield, Ky.	Do do do	Jan. 18, 1823
Do	Waterbury, Ct.	Do do do	June 11, 1829
Medley, Reuben	Baltimore, Md.	Fork, four-tined	June 13, 1823
Martin, Granville	-	Grain, cleaning and destroying insects	Feb. 28, 1810
Morgan, Joel	-	-	-

McConaughey, Wm.	New Garden, Pa.	Harrow teeth	Dec. 8, 1823
Do	Do	Do	Feb. 16, 1827
Mason, William	Washington co., O.	Hemp break	Dec. 28, 1809
Merrill, Pardon H.	Hillsdale, N. H.	Hoes	April 6, 1820
Maltby, Benjamin, and			
Maltby, Fowler			Feb. 28, 1818
Do			Feb. 26, 1819
Martin, Anthony B.	New Haven, Ct.	Hulling grain	June 2, 1819
Do	Do	Do, and rice	August 7, 1813
Murray, Matthew	Baltimore, Md.	Manure or compost for improving soils	
Morgan, J., and J. B.	Middletown, Md.	Plough	
Harris	Scipio, N. Y.		
Miller, Perry	Washington co., N.Y.		Aug. 11, 1814
McCormick, Stephen	Fauquier c. h., Va.		Oct. 26, 1818
Marshall, P. H., and	Lambertville, N. J.		Feb. 3, 1819
Jac. B. Smith	Fauquier, Va.		
McCormick, Stephen	Union District, S. C.		Mar. 3, 1820
Murphy, Bird	Fauquier, Va.	for planting corn	Jan. 28, 1826
McCormick, Stephen			Dec. 31, 1827
Medley, R. P. Alden-	Cootstown, Pa.		Oct. 22, 1828
derfer, & D. Alten-	Urbanna, Ohio		
derfer	Pittsburg, Pa.	double cast iron	June 11, 1829
Minturn, Jacob	Philadelphia, Pa.	Do	Oct. 23, 1829
Miller, Timothy		Preserving plants from frost	July 10, 1792
Morris, George		Rice, machine for scouring	Feb. 20, 1797
Mulliken, Samuel		Do, do, pounding	Jan. 19, 1809
Moore, Alex. D.	New Hanover, N.C.	Smut machine	April 25, 1826
Masten, L. V. & C.	Penn Yan, N. Y.	Straw cutter	June 10, 1824
McDonald, Major	Topsham, Me.	Thrashing machine	Mar. 11, 1791
Mulliken, Samuel	Philadelphia, Pa.	Do, do, do	June 2, 1798
Martin, Thomas C.	New York	Do, do, and cleaning wheat	July 19, 1802
Miller, Ezra			

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Miller, Ezra, and John Andrews	Westmoreland, N. Y.	Threshing, fanning, and cleaning grain from smut	Aug. 15, 1810
Mayfield, Thomas	Baltimore, Md.	Do machine	Dec. 28, 1818
Morrison, Michael	Waterbury, Ct.	Do do and cleaning rice	Sept. 15, 1821
McDonald, Major	Topsham, Me.	Do do	July 9, 1822
Mills, N., & J. Rodgers	Bath, N. H.	Do do and cleaning grain	Jan. 14, 1823
Miller, J. R.	Dryden, N. Y.	Do do	April 25, 1823
Martin, Sam., & Zad. Chapin	Ontario co., N. Y.	Wheat, machine for washing, drying, and screening	Jan. 18, 1820
Norton, Lewis M.	Goshen, Ct.	Cheese vat, for forming pine apple cheese	April 17, 1810
Do	Litchfield, Ct.	Do nets	June 4, 1827
Newman, Thomas	Guilford, N. C.	Corn sheller	Feb. 7, 1827
Neefus, David	Flatlands, N. Y.	Fanning mill	Sept. 22, 1823
Nichols, M. & I.	Otsego, N. Y.	Furrowing machine and corn dropper	Oct. 12, 1829
Newbern, Aquila	Bristol, Pa.	Hoe harrow	June 1, 1824
Newbold, Charles	New Jersey	Plough	June 26, 1797
Nixon, George	Talmadge, Ohio	Do	June 3, 1823
Nash, John	St. Luke's, S. C.	Do	Oct. 14, 1823
Nourse, Asa	New York	Rice, machine for pounding	July 5, 1814
Norton, John L.	Beaufort, S. C.	Do do cleaning and hulling	Mar. 10, 1826
Nourse, Asa	Charleston, S. C.	Do do	Mar. 19, 1828
Do	Do	Do mill, improvement on Keene's	Sept. 3, 1829
Norton, John L.	Do	Do steam	Dec. 16, 1823
Nichols, John	Boston, Mass.	Sifting grain, flour, &c.	April 29, 1829
Noble, Andrew	Alfred, Me.	Threshing machine	Jan. 12, 1824

Olcott, Sands	Harsimus, N. J.	Gum, extracting from unrotted flax	Dec. 3, 1828
Ogle, Samuel	Graceham, Md.	Plough	June 9, 1818
Osborne, John	Blandford, Mass.	Straw cutter	Dec. 6, 1823
Owen, Thomas G.	Baltimore, Md.	Threshing machine	Nov. 26, 1829
Pardee, Peter	Trenton, N. Y.	Agriculture, improvement	Feb. 6, 1829
Paine, H. E., and S. H. Russell	Le Roy, Ohio	Apple mill	Mar. 5, 1827
Pride, Daniel	Potsdam, N. Y.	Cider mill and press	June 11, 1829
Pettibone, Ozius	Hartford, Ct.	Do do	March 1, 1815
Price, Nehemiah	Frederick co., Md.	Clover seed, machine for rubbing out	March 2, 1811
Pilsbury, Paul	Massachusetts	Corn sheller	Oct. 25, 1803
Phinney, Zina	Cairo, N. Y.	Do and wheat thrasher	Feb. 16, 1815
Peck, Lemuel	Brookfield, Ct.	Do	April 9, 1824
Price, Francis	New York	Do	May 4, 1825
Pennoyer, Samuel	Cross River, N. Y.	Cotton gin	July 24, 1822
Philipps, David	Jefferson co., Mi.	Do	April 3, 1829
Pomeroy, S. W.	Brighton, Mass.	Cotton plant, management of the	May 6, 1824
Peyton, John	Orange, Va.	Fan and screen	Nov. 7, 1825
Peek, Lemuel	Brookfield, Ct.	Fanning mill	Aug. 13, 1824
Pinney, Ovid, and Jas. Olmsted	Caledonia, N. Y.	Do	Nov. 7, 1826
Pullen, Thomas	Lexington, Ken.	Flax and hemp machine	June 20, 1816
Pickingbottom, Wm.	New York	Do do preparing without water rotting	July 12, 1816
Perkins, Calvin	Waterbury, Ct.	Fork, four tined	Jan. 27, 1829
Penhody, Wm. H.	Woodbury, Ct.	Grain, cleaning, and seeds	June 8, 1810
Patterson, James	Southampton, N. Y.	Hackling machine	Dec. 7, 1805
Peacock, David	Burlington, N. J.	Plough	April 1, 1807
Patrick, Matthew	Scipio, N. Y.	Do	June 2, 1813
Pease, Horace	Enfield, Ct.	Do	Aug. 28, 1813
Peacock, David	New Mills, N. J.	Do	May 29, 1817
Potts, Joseph	Montgomery co., Pa.	share, rolled	Nov. 7, 1818

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Phelps, O., & G. Morehouse	Lansing, N. Y.	Plough	Nov. 17, 1821
Peacock, David	Northampton, N.J.	Do	June 21, 1822
Pancost, William C.	Addison, Vt.	Do cast iron, with a double pointed wing	Jan. 29, 1824
Pettis, Phineas	Portage co., Ohio	Do	Feb. 15, 1825
Pugh, Eli	Chatham co., N. C.	Do bar share	Dec. 24, 1827
Penock, Moses	E. Marlborough, Pa.	Rake, hay, horse	June 26, 1822
Do	Kennett's Square, Pa.	Do do grain and horse, revolving	Nov. 23, 1824
D.	E. Marlborough, Pa.	Do do revolving	Feb. 8, 1825
Pennock, M. & S.	Do	Do do grain	Feb. 17, 1827
Purdy, Jeremian	Sherburne, N. Y.	Sap bucket	Oct. 4, 1817
Pierce, Thomas	Fishkill, N. Y.	Smut machine	Feb. 21, 1804
Do	Do	Do fanning mill	May 25, 1805
Pease, Daniel, jr.	Winsted, N. Y.	Do machine	Oct. 31, 1820
Do	Do	Do do	Feb. 27, 1823
Pettis, Phineas	Talmadge, Ohio	Thrashing machine	Aug. 12, 1824
Pope, Joseph	Massachusetts	Do	July 22, 1802
Patten, Robert	Columbia, Pa.	Do	Feb. 17, 1809
Pope, Joseph	Hallowell, Me.	Do	July 30, 1822
Potter, Joseph	Reading, Pa.	Do	Feb. 18, 1826
Pennock, Moses	Kennett's Square, Pa.	Do	May 26, 1827
Pike, Ebenezer B.	Litchfield, Me.	Do	Oct. 5, 1827
Post, J. W., & J. Ryan	New Baltimore, Va.	Do	Oct. 10, 1828
Pendleton, Edward	Louisa co., Va.	Do	Dec. 18, 1826
Pleasants, John S.	Halifax co., Va.	called the American Thrasher	July 28, 1817
		Tobacco, curing and drying	
		Wheat, machine for cutting	

Payne, H. E., & S. H.		Apple mill	March 5, 1827
Russell	-	Cider mill and bark mill	April 5, 1806
Quintard, Isaac	-	Do and press	March 3, 1829
Reed, Daniel	-	Clover seed, machine for cleaning	Feb. 13, 1796
Roberts, Jona, jun.	-		
H. Rosevelt, and E. J. Rosevelt	-		
Reading, Pierson	-	Corn sheller	Jan. 26, 1821
Russell, Elijah	-	Do	Dec. 27, 1824
Reed, Jesse	-	Do	Oct. 24, 1826
Do	-	Cotton cleaner	Feb. 3, 1826
Reading, Pierson	-	Do sea island	Aug. 10, 1827
Roberts, Owen	-	Flax breaking	Jan. 3, 1825
Robinson, Nath'l P.	-	Flax and hemp machine	April 12, 1824
Rumsey, Edward	-	Do do	Aug. 31, 1810
Ricketts, G. H., and J. Kinney, jun.	-	Do do	April 26, 1811
Do	-	Mount Pleasant, N.J.	July 12, 1814
Boumage, J. L. F.	-	Morristown, N. J.	Oct. 24, 1814
Reed, Nathan	-	New York	August 6, 1829
Do	-	Belfast, Me.	May 6, 1820
Ruggles, Lazarus, and D. Tomlinson	-	Do	Sept. 10, 1822
Ross, William	-	Brookfield, Ct.	Mar. 16, 1810
Robbins, A. H. & T.	-	Middle Baxton, Pa.	June 24, 1826
Rhodes, Ryland	-	Denmark, N. Y.	Aug. 28, 1828
Rich, John, jun.	-	Alebmarle co., Va.	Feb. 25, 1823
Richardson, Wm. F.	-	Troy, N. Y.	Feb. 10, 1825
Russell, Herman	-	Auburn, N. Y.	June 28, 1825
Rhodes, Ryland	-	Litchfield, Me.	Jan. 16, 1827
Rhodes, John	-	Charlottesville, Va.	Feb. 20, 1827
		Urbanna, Ohio	June 11, 1829

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WIEN ISSUED.
Reading, Pierson	Trenton, N. J.	Rake, horse	August 1, 1818
Ricketts, John T.	Cameron, Va.	Rice, machine for cleaning and hulling	August 8, 1808
Reed, Jacob	Charleston, S. C.	Do do pounding husks	June 9, 1809
Ruggles, Lazarus	New York	Do do cleaning	Oct. 12, 1821
Ravenal, John	Charleston, S. C.	Do do do	May 17, 1828
Rhodes, John & Adam	Union townsh., N.Y.	Scythe, circular	Dec. 6, 1814
Rice, Levi	Lockport, N. Y.	Straw cutter and thrashing machine	April 1, 1829
Richards, William	Culpeper co., Va.	Thrashing machine	Mar. 2, 1812
Read, Nathan	Boston, Mass.	Do do	Feb. 22, 1817
Do	Belfast, Me.	Do do	Dec. 23, 1817
Do	Do	Do do	Feb. 18, 1818
Ransome, Wm. H.	Matthews co., Va.	Do do	Sept. 8, 1819
Reynolds, Gideon	New York	Do do	Jan. 21, 1823
Reading, Pierson	Trenton, N. J.	Do do	April 15, 1823
Reynolds, Gideon	New York	Do do	July 20, 1824
Remington, A. & N.	Genoa, N. Y.	Do do	May 19, 1825
Reading, Pierson	Trenton, N. J.	Do do	May 20, 1825
Do	Do	Do machine	June 3, 1826
Robinson, John	Charlotte, V.a.	Tobacco, curing	Feb. 25, 1809
Rowley, Jireh	Pittsford, N. Y.	Wheelbarrow, horse	Nov. 1, 1825
Richard, John D.	Middleburg, V.a.	Wheat, rubbing	Feb. 27, 1812
Sweet, John	Bethlehem, Mass.	Bee hive	April 11, 1810
Stanley, Timothy	Farmington, Ct.	Do	Dec. 9, 1811
Do	Do	Do	Jan. 6, 1812
Stillwell, Wm. J.	Root, N. Y.	Do	May 18, 1824

Smith, Moses	Massachusetts	Cattle, machine for watering	May 16, 1824
Showerman, Timothy	Covington, N. Y.	Cider mill	July 20, 1825
Spicer, Asher	Connecticut	Clover seed, machine for cleaning	April 22, 1802
Sampson, William, and			
Cyrus Curtis	New Haven, Vt.	Do do	Jan. 6, 1809
Spickard, Henry	Fincastle, Va.	Do do	Aug. 16, 1814
Smith, John	Fredericksburg, Va.	Do do	April 28, 1815
Sutton, Benjamin	Romulus, N. Y.	Do do	Feb. 10, 1825
Stevens, Levi	New York	Corn sheller and grinder	May 8, 1804
Spooner, Samuel	Petersham, Mass.	Do	Feb. 27, 1823
Sheffield, Wm. E.	New York	Do	April 15, 1823
Saltonstall, G. F.	North Carolina	Cotton cleaning machine	Sept. 2, 1801
Do	Do	do	May 14, 1803
Simonds, James, & Jos.			
Mc. James	Charleston, S. C.	Do cleaner	May 17, 1804
Saltonstall, G. F.	Fayetteville, N. C.	Do hopper for cleaning	Dec. 31, 1817
Sadler, Geo. F.	Lawrence co., Ala.	Do cleaner	Mar. 10, 1823
Starke, Horatio	Wilkinson co., Mi.	Do scraper	Feb. 3, 1824
Smith, Jabez	Petersburg, Va.	Do separating seed	Dec. 28, 1829
Spooner, Eliakim	Vermont	Cultivator for corn and beans	Jan. 25, 1799
Stillwell, Stephen	New York	Fan, wheat	July 9, 1802
Snedeker, Samuel	Johnstown, N. Y.	Fanning mill	April 27, 1810
Soper, Jabez	Windsor, Ct.	Do	Dec. 3, 1814
Schoonhoven, Henry	Pultney, N. Y.	Flax dressing	Dec. 11, 1827
Salisbury, Amos	Troy, N. Y.	Flax and hemp machine	April 15, 1829
Salisbury, Amos, and			
John C. Langdon	Do	Do	April 18, 1829
Do	Do	do	July 8, 1829
Strong, Stephen	Wilkes township	Fruits, &c., drying	Sept. 2, 1811
Schenck, Peter H.	New York	Grain, measuring	Feb. 15, 1810

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Simmons, Dav. C., and Conley Raguet, adms. of James Simmons -	Philadelphia, Pa.	Hay, machine for binding and pressing	Nov. 7, 1809
Smedes, Abr. K.	Lexington, Ky.	Hemp, preparation	Oct. 11, 1828
Smith, Robert	Pennsylvania	Mould board	May 19, 1800
Spooner, Eliakim	Vermont	Planting, machine for corn, &c.	Jan. 25, 1799
Smith, Frs. H.	Richmond, Va.	Do do cotton	Feb. 15, 1826
Starr, Orson	Richmond, N. Y.	Do do grain	Aug. 22, 1828
Sanford, John	Sharon, Ct.	Plough, varying the motion of the	Aug. 20, 1811
Sietz, John	Strasburg, Pa.	Do	Feb. 8, 1813
Swan, John	Scipio, N. Y.	Do	July 5, 1814
Schultz, H.	Lancaster, Pa.	Do	Dec. 17, 1814
Swartwout, James	Taghkanic, N. Y.	Do	Nov. 13, 1819
Stephens, Robert, and Edwin A. -	Hoboken, N. J.	Do	Sept. 13, 1820
Seaver, John, and John Fay	Rockingham, Vt.	Do cast iron	Dec. 14, 1820
Stephens, R. L. & E. A.	Hoboken, N. J.	Do do	April 23, 1821
Do	Do	shares, hardening edges	April 23, 1821
Seely, Obed	Pottstown, Pa.	Do cast iron	Aug. 27, 1821
Schuart, William G.	Orange co., N. Y.	Do	Feb. 5, 1822
J. J. Schoonmaker, and J. Dolson -	Ulster co., N. Y.	Do cast iron	Dec. 7, 1822
Swan, Jonathan	Dutchess, N. Y.	Do do cutter for	April 24, 1824
	Cayuga co., N. Y.		

Spicer, A. jr.; and J. Tower	Portage towship, { O. Talmadge co.	Do		Sept. 25, 1824
Shepherd, John	De Ruyter, N. Y.	Do	hill-side, double-nose, cast iron	April 12, 1826
Sweeny, Robert	Warren co., Ohio	Do	east iron	May 18, 1827
Staples, Norman	Penn's Store, Va.	Do	hill side	Nov. 1, 1828
Spencer, Elihu	New Haven, Ct.	Rice, machine for cleaning		Dec. 5, 1821
Shinir, Alexander	Charleston, S. C.	Do	do	Dec. 21, 1825
Sherwood, Stephen A.	Poughkeepsie, N. Y.	Straw cutter		April 11, 1818
Steele, Robert J.	Richmond co., N.C.	Do		May 24, 1824
Safford, Noah	Springfield, Vt.	Straw cutting machine		Aug. 25, 1824
Skiff, Samuel	Sharon, Ct.	Thrashing machine		Dec. 5, 1812
Smith, Silas	Albany, N. Y.	Do		Aug. 23, 1817
Shattuck, Asa	Pepperell, Mass.	Do	do	Aug. 23, 1820
Savage, Alvin	Wheatland, N. Y.	Do	do	Mar. 28, 1822
Smith, Charles	New York	Do	do	Sept. 6, 1823
Small, William	Augusta, Me.	Do	do	Sept. 9, 1825
Do	Do	Do	do	Jan. 10, 1826
Shaw, John	Kennebeck, Me.	Do		May 10, 1826
Tyler, Benjamin	New Hampshire	Fan, wheat		April 15, 1796
Do	Do	Flax and hemp machine		Feb. 26, 1799
Tanner, Archibald	Trumbull co., Ohio	Do	do	Oct. 24, 1811
Thibbitts, Lafayette	New Glasgow, Va.	Do	do	Aug. 1, 1829
Tyler, John	Clarendon, N. H.	Grain, cleaning		May 11, 1827
Tam, Lemuel	Sussex co., Del.	Harrow, cleave		July 11, 1826
Thorne, R. V. W.	New York	Hay, machine for pressing		April 29, 1813
Turhutt, Nicholas	Fredericktown, Md.	Plough, common		Sept. 7, 1811
Tonsley, Roswell	Cayuga co., N. Y.	Do		Jan. 11, 1812
Tonsley, Sylvanus	Onondaga co., N. Y.	Do	bullock	May 28, 1813
Tonsley, Roswell, and J. Swan	Union Village, N. Y.	Do	do	
Tice, Abr., & Is. Tice	Do	Do	do	

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Talcomer, William	New York	Plough	Sept. 13, 1821
Ten Eyck, James	Bridgewater, N. J.	Reaping machine	Nov. 2, 1825
Tullock, William	Lantern Mills, Va.	Seed or grain cleaner	Oct. 28, 1806
Tomlinson, Daniel	Brookfield, Ct.	Smut machine	May 20, 1812
Tisdale, Ephraim	Warren co., N. Y.	Smut and wheat machine	July 31, 1819
Tunstall, William	Richmond, Va.	Straw, cleaning grain from	June 30, 1804
Thompson, William	Do	Threshing machine	Aug. 2, 1791
Turner, Jedediah P.	Delaware	Do	Oct. 19, 1803
Tyler, B. & I., and J. B. Andrews	Windsor, Vt.	Do do	April 23, 1822
Tufts, Nathan, 2d	Charlestown, Mass.	Wheelbarrow	Sept. 13, 1824
Tallman, Jedediah	Oneida co., N. Y.	Wheat, machine for cleaning	May 8, 1822
Van Dewzer, Wm.	Warwick, N. Y.	Flax and hemp machine	June 30, 1813
Van De Graaf, John S.	Scott, Ken.	Hemp break	May 12, 1828
Vinton, Seth	Wilmington, Ct.	Plough harrow	Nov. 18, 1807
Van Houten, Ruliff	New York	Threshing machine	Mar. 28, 1811
Weeks, Constant H.	Paris, N. Y.	Apples, machine for grinding	April 9, 1827
Williams, Simon C.	Shenandoah co., Va.	Bee hive	May 14, 1823
Wiggins, Cuthbert	Fayette co., Pa.	Do	Feb. 27, 1827
Warrell, Jacob	Pennsylvania	Clover seed machine	Feb. 27, 1804
Withers, Michael	Lancaster, Pa.	Do do for shelling	April 30, 1804
Williams, Thomas	Pittsylvania, Va.	Corn covering machine	Dec. 19, 1822
Whitney, Lewis	New York	Do sheller	Nov. 13, 1824
Waring, Geo. E.	Poundridge, N. Y.	Do do longitudinal	Mar. 16, 1827
Whitney, Eli	Massachusetts	Cotton gin	Mar. 14, 1794

Watkins, Robert	Georgia	Do	Dec. 23, 1796
Whiting, Ebenezer	Massachusetts	Do	Jan. 22, 1801
Willis, William	South Carolina	Cutting box	Aug. 24, 1822
Whitman, David	Paradise, Pa.	Dairy cooler	Dec. 7, 1826
Weaver, Samuel	Frederick co., Md.	Fan, wheat	Mar. 11, 1816
Walker, Enoch	Springfield, Pa.	Fanning mill	Mar. 28, 1825
Do	Do	Do	Sept. 20, 1827
Wilde, Oliver	Canaan, N.Y.	Flax dressing	April 16, 1810
Wheeler, William	Warren, N.Y.	Do dresser	Mar. 26, 1825
Wakeley, Platt	Augusta, N.Y.	Do and hemp, dressing	April 16, 1824
Wenzel, John C.	Louisville, Ken.	Do machine	Jan. 17, 1828
Watson, James Y., and A. J. Blossom, and A. Burnet	Salem, N.Y.	Do do do	April 21, 1829
Watson, Joseph	Canaan, Ct.	Hoes	July 26, 1823
Whitin, Paul	Northbridge, Mass.	Do	Feb. 22, 1825
Wilson, Joseph	Marlborough, N. H.	Do pronged	Sept. 20, 1827
Whiting, Charles	Massachusetts	Oil, extracting	March 2, 1799
Whitlaw, Charles	New York	Plant, applicable to various uses	Jan. 11, 1812
Woodward, Frederick	New Lisbon, N.Y.	Plough, planting	July 18, 1809
Wood, Jethro	Scipio, N.Y.	Do	July 1, 1814
Do	Poplar Ridge, N.Y.	Do	Sept. 1, 1819
Wright, J. S.	Greenwich, N.Y.	Do	July 28, 1820
Wood, Charles, & Gilbert Brundage	Blooming Grove, N.Y.	Do	Nov. 9, 1820
Wood, John	Castleton, N.Y.	Do shifting share	Feb. 1, 1821
Willis, William	Edgefield, S. C.	Do drill and cotton thinner	May 7, 1822
Woolley, Joseph	Troy, N.Y.	Do	Sept. 14, 1822
Weaver, John	Washington, D.C.	Do for listing and preparing land	May 8, 1823
Winans, Ross	Vernon, N.Y.	Do cast iron	May 11, 1824
Whitgan, Stephen W.	Harpersfield, Ohio	Do	May 7, 1825

LIST OF PATENTEES—AGRICULTURE—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Wiard, William	Avon, N. Y.	Plough	Jan. 26, 1828
Wilder, Elijah	Jersey City, N. J.	Rice, machine for cleaning, and cleaning coffee	Nov. 6, 1827
Warren, Edmund	New York	Do do thrashing	Feb. 22, 1828
Wilson, Thomas	Baltimore, Md.	Smut and garlic, machine for cleaning from wheat	Feb. 8, 1819
Woodward, Frederick	Butternuts, N. Y.	Smut and scouring machine	Aug. 10, 1821
Whitlock, Samuel	Vermont	Straw cutter	Mar. 3, 1817
Wardrop, James	Amphill, Va.	Thrashing machine	Nov. 5, 1794
Willard, Simon, jr.	Hudson, N. Y.	Do do and cleaning grain	Nov. 30, 1807
Wallis, Randall	Baltimore, Md.	Do do	Nov. 9, 1808
Walker, James W.	Wilmington, N. C.	Do do	Feb. 9, 1811
Warner, Thomas	Genesee, N. Y.	Do do	May 11, 1815
Warren, Edmund	Augusta, Me.	Do and winnowing machine	Mar. 6, 1824
Do	New York	Do do and flax breaking machine	Aug. 11, 1827
Webster, David W.	Amesburg, Mass.	Do machine and flax breaker	Feb. 9, 1828
Wood, James S.	Pattensburgh, Va.	Do do	Sept. 10, 1829
Do	Botetourt co., Va.	Do do	Jan. 9, 1829
Watkins, Horatio	Washington co., Md.	Winnowing machine	Mar. 18, 1819
Youngs, Daniel	Piermont, N. H.	Thrashing machine and cutting	April 17, 1819
Zorger, Michael	York, Pa.	Clover seed machine	May 10, 1805

LIST OF PATENTS—FACTORY MACHINERY.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Anchors, faggotting	J. Tucker & J. Judge	Washington, D. C.	Nov. 19, 1829
Andirons	John Stickney	Baltimore, Md.	May 4, 1805
Do	Willoughby Dexter	Winchester, Ct.	May 17, 1814
Do	William Pye	New York	Nov. 16, 1821
Do	Edmund Smylie	Do	Feb. 1, 1827
Do	Do	Do	Feb. 22, 1827
pedestal feet	John Griffiths	Pembroke, Mass.	Mar. 15, 1827
repairing and finishing	Charles Joselyn	Massachusetts	Oct. 9, 1816
constructing feet of brass	Abel Stowell	Hudson, N. Y.	Feb. 14, 1803
Anvil and hammer	Christopher Hoxie	Champlain, N. Y.	July 12, 1804
Auger, gauge	William Hale	Saybrook, Ct.	Feb. 7, 1807
Do	Ezra L'Hommedieu	Sebree	July 31, 1809
Do	Oliver Stetson & Wm.	Georgetown, Ken.	Dec. 11, 1810
double paddod centre screw	Perkins Nichols	Boston, Mass.	May 18, 1811
Do common screw	Daniel Pettybone	Philadelphia, Pa.	Feb. 12, 1814
Do	Martin Howe	New York	April 2, 1814
Do	Joseph Brownell	Otsego, N. Y.	May 16, 1815
Do	Ezra L'Hommedieu	Norwich, Ct.	July 17, 1816
Do	Cyrus Jackson	Otsego co., N. Y.	Feb. 14, 1818
mining	Robert Thomas	Richmond co., N.C.	May 29, 1819
twisted screw for boring guns, pistols, &c.	William Holmes	Winchester, N. H.	April 4, 1820
Do	Christopher Hoxie	Hudson, N. Y.	July 26, 1824
Do	Cyrus Gore	Sheshequin, Pa.	July 20, 1825
strap	Hardin Branch	New York	Aug. 7, 1826
Do mode of turning any number			

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Auger	J. H. Schreiner	Philadelphia, Pa.	Aug. 17, 1826
Do set for wheel hubs	Sheldon Caswell	Windham, Ct.	Nov. 20, 1826
Do screw	Judson Smith	Derby, Ct.	July 13, 1827
Do do	David Bassett	Do	Mar. 18, 1829
Do hollow	Abel Conant	Pepperville, Mass.	June 11, 1829
Do serpentine screw	George Shetter	New York, Pa.	Sept. 10, 1829
Axes, &c. sharpening	John Shotwell	New Jersey	Mar. 16, 1799
Do pick	Luke Baker	Putney, Vt.	Jan. 15, 1822
Do making	John Alley, sen.	Pise, Ind.	April 9, 1829
Bands, iron keyed	Edward Cooper	Richmond, Va.	Sept. 14, 1826
Band boxes, machine for cutting	Benjamin Mestayer	New York	Nov. 13, 1821
Bars, hollowing out iron	Thomas Rowand	Gloucester co., Pa.	Dec. 24, 1819
Beams, for looms	Simon Pettee	Foxborough, Mass.	June 15, 1813
Do weavers	Goliath Williams	North Providence, R. I.	Aug. 24, 1813
Do iron, pattern for casting	Aaron Dana	Troy, N. Y.	Dec. 28, 1824
Beaming machine	Jer. Ladd	New Hampshire	July 17, 1801
Do do	Allen Hill	Hillsdale, Mass.	May 6, 1805
Bells, improvement in	Robert Leslie	Philadelphia, Pa.	Feb. 2, 1793
Do do	Simeon Newton	Connecticut	Dec. 22, 1804
Do do	James P. Parke	Philadelphia, Pa.	Dec. 19, 1808
Do do	Benjamin Hanks	Albany, N. Y.	Nov. 4, 1816
Do do	Anthony Lynn	New York	Dec. 24, 1819
Do do	William Hoyt	Brookville, Ind.	March 3, 1825
Do do	H. Tyler	Utica, N. Y.	Oct. 20, 1826
Do do	James Russell	New York	Oct. 10, 1829

Binding, ornamental, and raised banding	D. K. Vanveckton	New York	Dec. 12, 1820
Biting figures on steel cylinders for printing calicoes	David H. Mason and M. W. Baldwin	Philadelphia, Pa.	Oct. 30, 1827
Blankets, combining wool into Do cloth, making from sheep's wool	Elkanah Cobb	Georgetown, D.C.	April 29, 1812
Do manufacturing, improvement on Cobb's machine	Allen Barnes, Samuel Gray & Jabez Clark	Windham, Ct.	Feb. 3, 1813
Bleaching cotton by steam	Jac. Getzendennar	Frederick co., Md.	Sept. 30, 1814
Do do and linen yarn	Alexander Milne and Jonas Kendall	Clinton, N. Y.	July 14, 1813
Do	George Keintzle	Leominster, Mass.	Aug. 22, 1817
Block making	Eben. Whiting	Montgomery co., Pa.	Oct. 8, 1818
Blowing and striking, mode of	L. Hoyt and E. Pierce	Massachusetts	April 1, 1802
Bobbin tube	J. Manchester	Poultney, N. Y.	Mar. 3, 1827
Do do for spinning cotton machine	Benjamin Hutchinson	Warwick, R. I.	Dec. 13, 1824
Do and flyers for cotton spinning and flyer, Canton woollen	James A. Post	Philadelphia, Pa.	Oct. 18, 1827
Do and flyers for cotton spinning and flyer, Canton woollen	Charles Danforth	Warwick twsh., N.Y.	April 23, 1828
Bolts and bars, forging	Wm. B. Taber	Ramapo, N. Y.	Sept. 2, 1828
Do for ships, mode of casting	Clement Rentgin	Canton, Mass.	Jan. 30, 1829
Do machine for cutting off the ends of copper, for shipbuilding	Joseph Share	Pennsylvania	Nov. 17, 1796
Do racks for doors	John Rewey	Baltimore, Md.	Oct. 28, 1805
Berg & Ivers	Berg & Ivers	Berkshire, N. Y.	May 8, 1811
John Brown and Geo. W. Robinson	John Brown and Geo. W. Robinson	New York	Mar. 15, 1824
Bonnets and hats made of grass	Gurden Wells and Sophia Wells	Providence, R. I.	Mar. 24, 1826
Boring blocks for carlouch boxes, brushes, &c.	Val. Bogenrief	Weathersfield, Ct.	Dec. 29, 1821
Do bit nut for gun barrels	James Green	Georgetown, D.C.	July 10, 1810
Boxes for pulleys, casting metallic	Lebbeus Larabee	Harper's Ferry, Va.	Oct. 3, 1817
Braiding machine	John Thorp	Nantucket, Mass.	Nov. 4, 1811
Do	Do	Providence, R. I.	Aug. 10, 1821
		Do	July 10, 1826

92 LIST OF PATENTS—FACTORY MACHINERY—Continued.

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INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Brads, machine for cutting	Jonathan Ellis	-	Feb. 10, 1807
Do do	Seth Boyden, jun.	Boston, Mass.	June 27, 1815
Do and sprig machine	Gudley Jenkins	Plymouth co., Mass.	May 16, 1817
Do and tack do	Sam. Rogers & Thos. Blanchard	Boston, Mass.	Oct. 3, 1817
Brand for flour barrels	William Ross	New Orleans	Dec. 2, 1825
Brooms, machine for making	Shadrack H. Weed	Poughkeepsie, N.Y.	Feb. 3, 1819
Do do	Adam Selater	Oxford township, Pa.	Feb. 15, 1826
Brushes, machine for making from broom corn	Bazaleel Crossdale	Byberry, Pa.	Dec. 21, 1819
Do do	Elijah S. Curtis	Charlestown, Mass.	June 2, 1820
Do blocks	Stacy Costill	Philadelphia, Pa.	Feb. 25, 1824
Do brooms, &c. of grass	S. H. Weed	New York	Feb. 28, 1825
Do manufacturing	David Wooster	China, N. Y.	Feb. 16, 1829
Buckles for suspenders	Orange Webb	New York	July 5, 1817
Buttons, manufacturing	Geo. W. Robinson	Providence, R. I.	Mar. 24, 1804
Do securing in a lathe	Do	-	June 27, 1809
Do moulds for casting metal	Do	-	May 14, 1812
Do hold fast while polishing	Ira Ives	New Haven, Ct.	June 18, 1814
Do moulds, single jointed pewter, for casting wire-eyed	John B. Collins	Merriden, Ct.	April 12, 1815
Do moulds, wooden	Anson Mathews	Southington, Ct.	April 26, 1815
Do smoothing and rounding the eye of metal	Ira Ives	Bristol, Ct.	Aug. 7, 1815
Do constructing eyes for metal, east in moulds	Do	Do	Aug. 7, 1815
Do setting eyes of metal, in the moulds	Do	Do	Aug. 7, 1815
Do machine for making wire neck metal	Heman Mathews	Southington, Ct.	Sept. 12, 1815

		Sept. 12, 1813
	Heman Mathews and Anson Mathews	Southington, Ct.
	Samuel H. Woodruff	Connecticut
	Daniel French	Bridgeport, Pa.
	John Norton	Southington, Ct.
	Spencer Richards	Attleborough, Mass.
	Willard Robinson	Do
	Nathl. Cutting	Washington, D. C.
	Wm. Shultz	Baltimore, Md.
	Isaiah Jennings	New York
	Erastus Bartholomew	Boston, Mass.
	John Judge	Washington, D. C.
	Robert Bailey	Washington, D. C.
	Daniel Stearns	Brattleborough, Vt.
	Joshua Lamb	Leicester, Mass.
	Joshua Lamb	Leicester, Mass.
	Amos Whittemore	Massachusetts
	John Boynton	Windham co., Ct.
	William Barker	Smithfield, R. I.
	Gideon Drake	Windsor, Ct.
	Abner Guild	Dedham, Mass.
	Arnold Buffum	Marlboro, Mass.
	Daniel Smith	Philadelphia, Pa.
	Alanson Holmes	Pomfret, N. Y.
	Heman Palmerlee	Shoreham, Vt.
	George Booth	Poughkeepsie, N. Y.
	John Jessup	Orange co., N. Y.
	Thos. Norton & Geo. Biddis	Milford, Pa.
	Arthur Kimball	New York
	Lewis French	New Haven, Ct.
Do	machine for finishing metal composition for wire-eyed	
Do	turning	
Do	moulds, wooden	
Do	glass, finishing	
Do	grinding steel dies for	
Do	Cables, improving the quality	
Do	laying and spinning ropes for	
Do	chain	
Do	do	
Do	do and hemp, proving	
Do	Cards, machine for dealing	
Do	Card boards, smoothing	
Do	Card teeth, cutting	
Do	Card machines, packing sheets of leather on cylinders of	
Do	Cards for wool	
Do	machine for straining and grinding	
Do	for cotton	
Do	machine for grinding and facing	
Do	Carding machine for wool hats	
Do	fur and wool hats	
Do	do wool	
Do	and spinning wool	
Do	machine	
Do	do for wool	
Do	do for cloth	
Do	spinning and roping machine	
Do	hair of neat cattle	
Do	machine for wool	

April 15, 1813
Nov. 4, 1813
May 18, 1814

May 17, 1826
Nov. 29, 1828
May 15, 1812
Mar. 10, 1814
Aug. 1, 1827
Aug. 21, 1819
June 5, 1797
Mar. 30, 1811
Aug. 12, 1815
Feb. 28, 1817
Mar. 31, 1806
Feb. 21, 1807
June 14, 1809
Jan. 8, 1810
May 25, 1811
Oct. 13, 1812
Feb. 6, 1813

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Carding, drawing, and roping cotton	Wm. Tiffany and Phineas Allen	Otsego, N. Y.	July 17, 1815
Do machine for gleaning savers	James Hugus	Greenbush, Pa.	Sept. 15, 1815
Do do	Joshua Woodward	Portage, Ohio	May 2, 1821
Do and spinning wool	Philo C. Curtis	Paris, N. Y.	Oct. 15, 1823
Do wool	E. Hale, J. S. Hale, and James Hale	Haverhill, Mass.	Feb. 18, 1825
Do machine	Nathaniel Rider	Sturbridge, Mass.	Mar. 12, 1825
Do do	Elijah Thompson	Lowell, Mass.	June 9, 1826
Do do	James H. Arnold	Bellefonte, Ohio	Sept. 25, 1826
Do do	John Tilton	Newtown, Ct.	Sept. 8, 1827
Do do	Henry A. Shannon	Columbia co., N. Y.	April 5, 1828
Do do	D. M. Bacon	Huntington, Pa.	Oct. 10, 1828
Do do	John Boynton	South Coventry, Ct.	April 11, 1829
Do do	James W. Shankland	Summerfield, Ohio	May 5, 1829
Do do	Francis Guy	Baltimore, Md.	Feb. 23, 1819
Do do	Jno. & Nichs. Haight	New York	Aug. 12, 1820
Do do	Wm. A. Prince	Do	Feb. 12, 1823
Carpets of paper	Wm. Harrington	Harrison, N. Y.	March 3, 1829
Carpeting, ingrain	Aaron Byington	Herkimer, N. Y.	May 6, 1829
Do do	Wm. Harrington	Harrison, N. Y.	June 11, 1829
Do woollen	Joseph Sampson	Boston, Mass.	Aug. 6, 1790
Do felt	Richard Robotham	New York	June 2, 1794
Do woollen	Joseph S. Sampson	Massachusetts	June 26, 1797
Candles, manufacturing	Samuel Blydenburg	Connecticut	Mar. 22, 1798
Do do	Do	Do	Do
Do dipping	Do	Do	Do

Do.	do	manufacturing of tallow and wax	Jan. 6, 1809	New York	Jan.	-
Do	do	mould and dipped	Jan. 6, 1809	Do	Jan.	-
Do	do	mould	April 2, 1812	Baltimore, Md.	Jan.	-
Do	do	mould	July 1, 1814	New York	April	-
Do	do	moulding sperm	Aug. 1, 1815	Richmond, Va.	July	-
Do	dipping	-	Jan. 14, 1820	New Bedford, Mass.	Aug.	-
Do	dipping	-	May 17, 1820	Chillicothe, Ohio	Jan.	-
Do	manufacturing	-	Mar. 20, 1821	Burlington co., N.J.	May	-
Do	do	-	Sept. 29, 1821	New York	Mar.	-
Do	dipping	-	Dec. 4, 1821	Trenton, N.J.	Sept.	-
Chair,	elastic	-	Mar. 11, 1826	Gardiner, Me.	Dec.	-
Do	bottoms	-	Aug. 31, 1808	Boston, Mass.	Mar.	-
Do	do	-	June 12, 1811	Dedham, Mass.	Aug.	-
Do	reclining	-	May 26, 1812	Philadelphia, Pa.	June	-
Do	eagle	-	May 18, 1816	Albany, N.Y.	Dec.	-
Do	posts for sitting	&c.	June 14, 1816	New York	Oct.	-
Do	bottoms, table tops, &c.	-	Oct. 29, 1816	Do	Oct.	-
Do	convalescing	-	Oct. 29, 1816	Albany, N.Y.	Mar.	-
Do	nursing	-	Mar. 14, 1817	Charlestown, Va.	Mar.	-
Do	easy	-	Mar. 13, 1822	Keene, N.H.	May	-
Do	Chains, watch	-	May 8, 1823	Baltimore, Md.	Feb.	-
Do	do	-	May 22, 1827	Do	May	-
Do	&c., and preventing them from slipping	-	May 4, 1820	Augusta co., Va.	June	-
Do	frame	-	June 5, 1820	New York	June	-
Do	Chest, fire-proof	-	June 17, 1823	Do	Nov.	-
Do	Chisel, bearded, mortising	-	June 19, 1827	Wilmington, Vt.	Mar.	-
Do	Cloth dressing machine	-	Mar. 7, 1826	Connecticut	Jan.	-
Do	brushing and finishing	-	Jan. 17, 1827	Hempstead, N.Y.	Mar.	-
Do	making of hair	-	July 27, 1812	William Showell and	July	-
	Arthur Kinder	-	July 23, 1813			-

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Cloth, sizing and dressing	Paul Moody	Waltham, Mass.	Jan. 17, 1818
Do drying by steam rollers	Duncan Wright	Medley, Mass.	Aug. 31, 1820
Do scouring dry	Thomas L. Jennings	New York	March 3, 1821
Do ornamenting, &c.	James C. Wood	Philadelphia, Pa.	Dec. 14, 1821
Do fulling and scouring	Horace Hickox	Rutland, N. Y.	Mar. 26, 1825
Do singeing	A. Robeson	New Bedford, Mass.	Sept. 8, 1826
Do manufacturing	J. P. & R. G. Hazard	Providence, R. I.	Dec. 6, 1828
Do do	Henry Raymond	New York	June 27, 1829
Do do	N. Peck & D. Taylor	Fairfield co., Ct.	June 27, 1829
Do forming the web without spinning or weaving	John Arnold	Norwalk, Ct.	July 15, 1829
Do washing and fulling, and making carpeting	Harvey Slayton	Lockport, N. Y.	Nov. 25, 1829
Colors, imprinting	Lewis J. B. Wells	Philadelphia, Pa.	Jan. 24, 1817
Combs, pointing and cutting	Isaac Tryon	Connecticut	Feb. 22, 1798
Do manufacturing	Phineas Pratt	Do	April 12, 1799
Do do	Do	Saybrook, Ct.	March 5, 1808
Do do	Moses Moss	Farmington, Ct.	Jan. 10, 1809
Do do	Nat. Jones	Southington, Ct.	May 9, 1809
Do do	Robert Gedney	New York	June 26, 1809
Do do	Timothy Stanley	Southington, Ct.	July 6, 1809
Do do	John P. Spies	Baltimore, Md.	Jan. 8, 1810
Do do	David Williams, 3d	Saybrook, Ct.	Mar. 28, 1810
Do do	Eli Parsons	Bristol, Ct.	Aug. 16, 1810
Do do	Edwd. M. Canviss	Southington, Ct.	May 6, 1812
Do twinning machine	Dan'l Carrington, and Ira Ives	Litchfield, Ct.	Aug. 20, 1813

Do	cutting at a single operation	-	Leominster, Mass.	May 26, 1814
Do	manufacturing, and slitting horn for lanterns, &c.	-	Newbury, Mass.	May 24, 1814
Do	stamp twining and horn splitting machine	-	Newburyport, Mass.	Oct. 21, 1814
Do	cutting horn or tortoise shell	-	New Haven, Ct.	April 1, 1815
Do	manufacturing teeth, cutting	-	Philadelphia, Pa.	Mar. 28, 1816
Do	manufacturing horn and shell	-	Saybrook, Ct.	May 28, 1816
Do	cutting machine	-	Philadelphia, Pa.	July 15, 1816
Do	twinning horn and tortoise shell	-	Do	June 14, 1817
Do	metallic hair	-	Ballstown, N.Y.	Sept. 6, 1817
Do	cutting machine	-	Philadelphia, Pa.	Feb. 28, 1818
Do	metallic hair	-	Philadelphia, Pa.	April 10, 1818
Do	manufacturing	-	Otsego, N.Y.	May 28, 1818
Do	cutting	-	Philadelphia, Pa.	Aug. 11, 1818
Do	do	-	Do	Oct. 14, 1819
Do	do	-	Do	Oct. 28, 1819
Do	manufacturing hair	-	Paris, France	Nov. 3, 1819
Do	teeth, cutting	-	Bristol, Ct.	April 5, 1823
Do	do sawing	-	Springfield, Mass.	Dec. 8, 1824
Do	do cutting ivory	-	New York	April 20, 1825
Do	making ornamental	-	Do	Sept. 9, 1825
Do	rolling the backs of tortoise-shell, Brazilian, or	-	West Newbury, Mass.	Nov. 15, 1827
Do	horn	-	Danbury, Ct.	Nov. 17, 1827
Do	machine for grailing	-	Meriden, Ct.	Feb. 12, 1828
Do	forming and shaping	-	Hanover co., Va.	Jan. 9, 1829
Do	wooden	-	Middletown, Ct.	April 14, 1829
Do	manufacturing	-	Providence, R. I.	June 11, 1829
Do	do snuff boxes, &c. from raw hides	-	Do	June 11, 1829
Do	ornamenting	-	Philadelphia, Pa.	June 27, 1829
Do	rubbing down and polishing	-	Newtown, Ct.	Oct. 10, 1829
T. Curtis				

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Combs, manufacturing	Eli Sperry	New Haven, Ct.	Oct. 10, 1829
Composition for preparing cotton and wool cards	John M. Gates	Warren, Mass.	Sept. 14, 1815
Do applied before carding	Ziba Parkhurst	Grafton, Mass.	Aug. 19, 1826
Do to start the oil that wool contains	John Goulding	Dedham, Mass.	Aug. 24, 1827
Cordage, manufacturing	George Parkinson	Pennsylvania	June 16, 1794
Do do	John Pittman	Rhode Island	May 25, 1795
Do do	R. Fulton & N. Cutting	New York	March 4, 1808
Do do	Abel Hill	Walpole, N. H.	June 30, 1812
Do preparation of silk weed for manufacturing	George Smith	New York	May 28, 1813
Do do	Charles L. Sergeant	Suffolk, Mass.	Oct. 4, 1817
Do do	St. & Jas. A. Bazen	Canton, Mass.	Oct. 17, 1817
Do do	Wm. B. Leonard	Fishkill, N. Y.	Jan. 9, 1819
Do do	Robert Colbert	Boston, Mass.	Mar. 17, 1819
Do laying	Robert Graves	Do	April 10, 1819
Do do	Do	Do	Nov. 22, 1820
Do top sled	Do	Do	Feb. 1, 1821
Do pressing tar out of manufacturing	Thomas Barnett	Philadelphia, Pa.	Mar. 28, 1821
Do do	Franklin Kellsey	Middleton, Ct.	May 20, 1822
Do do	Erastus Bartholomew	Boston, Mass.	Feb. 8, 1825
Corks for bottles	Robert Graves	Brooklyn, N. Y.	May 17, 1826
Cotton, machine for winding	James Barron	Hampton, Va.	July 25, 1827
Do inspecting	David Brown, jun.	Warren, R. I.	Jan. 12, 1819
Do whipping	Lewis Viales	New Orleans	Feb. 5, 1807
	William Hopkins	Plainfield, Ct.	Oct. 29, 1818
			March 6, 1823

Do manufacturing	-	John T. Sharrock	Winchester, Va.	June 20, 1823
Do of wool vibrating rolling machine	-	Jesse Hopkins	Strasburg, Pa.	Jan. 14, 1824
Do process of manufacturing	-	Elisha Congdon	Norwich, Ct.	Mar. 12, 1824
Do rolls, machine for forming	-	C. Whiting, S. Lowder, & Sam. Lowder	Dedham, Mass.	June 25, 1824
Do manufacturing into yarn	-	Luther Crane	Ware, N. H.	Mar. 26, 1825.
Couch, accommodation	-	John Mead	Albany, N. Y.	Mar. 13, 1817
Crucibles, making	-	James Delliiba	Watervliet, N. Y.	Sept. 26, 1823
Cups and saucers, Columbia metallic	-	John Love	Baltimore, Md.	June 14, 1814
Cylinder, multiplying hollow	-	Thomas Powell	New York	Dec. 3, 1813
Dies, metal	-	Benjamin Mead and Giles Richards	Boston, Mass.	July 2, 1814
Dies, founders' moulding	-	Eb. Bryant	New London, Ct.	Mar. 18, 1818
Dying silk	-	Abner Stearns	West Cambridge, Ms.	Mar. 22, 1809
Do do	-	William Barrett	-	June 27, 1809
Do do	-	Thomas Harrison and Robert Pierpont	New York	-
Do and finishing silk	-	Abner Stearns & Wm. Barrett	West Cambridge, Ms.	Oct. 18, 1814
Do do	-	Abner Stearns & Wm. Barrett	Boston, Mass.	Jan. 30, 1818
Do nanken	-	Adolphus G. Trott	New York	Sept. 8, 1818
Do hair of seal skins by steam	-	Joseph Herring	Do	Feb. 11, 1825
Do by steam	-	Reuben Wood	Erin, N. Y.	Nov. 16, 1826
Doffer, circulating and transverse	-	Charles Atwood	Middletown, Ct.	Aug. 25, 1829
Dog power	-	Anthony Tiernan	New York	April 18, 1829
Drums, soldering, straightening factory	-	Luke N. Perry	Worcester, Mass.	April 27, 1818
Elevator for pots and kettles	-	John Edwards	New York	Jan. 23, 1829
Emery, manufacturing	-	William Garratt	New Lisbon, N. Y.	Mar. 19, 1825
Eyes, metal, for weavers' harness	-	J. Conger & L. Woodbury	Feb. 27, 1819	Feb. 27, 1819
Locke, N. Y.	-	Locke, N. Y.	Nov. 15, 1825	Nov. 15, 1825

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Fabrics, machine for reducing	John Biddis -	Pennsylvania	May 6, 1800
Felting cloth	Oliver Barrett, jr.	Troy, N. Y.	Dec. 8, 1812
Do of wool, without spinning or weaving	Levi Van Hoosen	Norwalk, Ct.	June 27, 1829
Do and fulling machine	John D. Lounsbury, John Arnold, John A. M'Lean, and G. G. Bishop	Norwalk, Ct. Green co., N. Y. Sandwich, N. H. Cincinnati, Ohio Northampton co., Pa. Philadelphia, Pa.	July 15, 1829 Aug. 29, 1829 April 19, 1822 May 19, 1823 Oct. 10, 1811 April 11, 1812
Felt, manufacturing	J. Barker & L. Kinsley	Worcester, Mass.	April 20, 1812
Fender for fire places	Elijah Skinner	Haverhill, Mass.	June 13, 1812
Do	Matthew Benson	Greenwich, N. Y.	July 11, 1812
Files, cutting	Ernst Gehbe	Butternuts, N. Y.	Nov. 19, 1812
Do	Charles Hesser and Amos Paxson	Sharon, Ct.	May 28, 1813
Do manufacturing	Levi & Dav. Anderson	Bennington, Vt.	March 7, 1814
Do cutting	Morris B. Belknap	Dedham, Mass.	May 11, 1814
Do do and rasps	Samuel G. White	Roxbury, Mass.	May 1, 1815
Do do	William T. James	New York	Oct. 10, 1828
Do do	Cyrus Jackson	-	July 27, 1829
Do do	Chs. & Daniel Platt	-	Jan. 16, 1812
Do do	Silas Hawes	-	March 5, 1812
Do do	John Hatch	-	-
Do do	Do	-	-
Do renewing old	A. P. & E. Brittingham	-	-
Do cutting	Morris B. Belknap	-	-
Flax and hemp, preparing for spinning	John Owings	-	-

Pinder Antrim	Philadelphia, Pa.	Nov. 25, 1814
Azariah Walton	Keene, N. H.	Jan. 6, 1812
Martin Newton	Fitchburg, Mass.	Sept. 28, 1812
Nehemiah Giles	Hinesborough, Vt.	Nov. 19, 1812
Jared Byington	New Haven, Ct.	Jan. 12, 1813
Martin Stevens	Fairfield, Ct.	April 16, 1824
Levi Osborn	Dutchess co., N. Y.	July 12, 1804
John Kennion	Otsego, N. Y.	Mar. 26, 1806
Asa Danielson	Do	May 16, 1815
Martin Lee	Warwick, N. Y.	Nov. 6, 1817
Ross Winans	Newtown, N. J.	June 26, 1821
M. W. Northrop and	New York	Dec. 4, 1823
R. R. Dillon	Danbury, Ct.	April 21, 1810
Martin Clark	Boston, Mass.	May 9, 1810
Eleazer Sprague	Bristol, Ct.	May 28, 1811
Joshua Witherle	Walpole, N. H.	May 19, 1812
Ira Ives	Burlington, N. J.	Feb. 4, 1813
Ephraim Cutter	Do	Feb. 2, 1815
William Jackson	Guilford, N. C.	Feb. 2, 1815
Do	Concord, N. H.	April 30, 1816
David Beard	Dearborn Johnson	Dec. 7, 1816
Benja. Marshall and	Daniel Vail	Feb. 21, 1821
Do	Wm. B. Rotch	Mar. 9, 1824
Fur cutting machine	Arnold Buffum	Sept. 28, 1825
Do do	Jer. Hubbard	Nov. 4, 1826
Fulling mill, double crank	Chs. C. K. Beach	Nov. 10, 1827
Do do	Michael Petre	Dec. 20, 1827
Forks, pitch	Joseph Broad	June 25, 1813
Do four-tined dung	Thomas Bakewell	March 3, 1815
Flying mill, double crank	Philadelphia, Pa.	Pittsburgh, Pa.
Do do	New Bedford, Mass.	
Cloth by steam	Troy, N. Y.	
Do do	Jamestown, N. C.	
Cutting machine	Portland, Me.	
Do do	Womelsdorf, Pa.	
Do and cloth-shearing machine	Salisbury, Ct.	
Do do		
Do wool, &c., cleaning		
Do blower		
Do preparing for hats		
Do cutting machine		
Do cutter, cant twist blade		
Do cutting machine		
Gimlets, twisted screw		
Glass, manufacturing		

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	BESIDENCE.	WHEN ISSUED.
Glass furnaces -	Jac. Stanger and Daniel H. Miller	Philadelphia, Pa.	Aug. 18, 1815
Do manufacturing	William Price	Pennsylvania	March 4, 1816
Do composition	do	Pittsburg, Pa.	April 30, 1816
Do furniture -	Jno. P. Bakewell	Do	Sept. 9, 1825
Do knobs for doors, &c.	Henry Whitney and E. Robinson	Cambridge, Mass.	Nov. 4, 1826
Do do mode of fastening -	William Price	Pitt, Pa.	Nov. 14, 1826
Do do pressed at one operation	John Robinson	Pittsburg, Pa.	Oct. 6, 1827
Do moulds for pressing	Phineas C. Dummer	Jersey City, N. J.	Oct. 16, 1827
Do do combination of, in forming	and G. & P. C. Dummer & J. Maxwell	Do	Oct. 16, 1827
Do knobs, improvement on Bakewell's	Ts. B. & J. P. Bakewell	Pittsburg, Pa.	May 14, 1828
Do melting and fusing	Thos. W. Dyott	Philadelphia, Pa.	Oct. 10, 1828
Do manufacturing, use of salt from ley	G. H. Burgin	Do	April 3, 1829
Do do knobs and screws	Deming Jarves	Boston, Mass.	June 13, 1829
Do do commode knobs	Elijah Skinner	Sandwich, N. H.	June 11, 1829
Do moulding, &c.	Deming Jarves	Boston, Mass.	Dec. 1, 1828
Gridirons, guttered	Thomas Mussey	New London, Ct.	March 6, 1820
Do	Daniel Ball	Ballstown, N. Y.	Aug. 29, 1822
Do	Jona. Powers	Lansingburg, N. Y.	Aug. 10, 1829
Do	Nathan Forces	Plymouth, N. H.	Dec. 22, 1804
Gun barrels, boring	Thos. Blanchard	Mitcheuary, Ms.	Sept. 6, 1819
Do stocks, turning	do	Do	Jan. 20, 1820
Do do do	do	do	do
Do do do	Azariah Woolworth	Waterbury, Ct.	June 15, 1820

Do barrels, draw grinding	-	Harper's Ferry, Va.	July 28, 1820
Do do turning	-	Do	April 11, 1818
Do do do	-	Middlebury, Ms.	Dec. 19, 1818
Do trucks, cutting	-	Washington, D. C.	Aug. 6, 1821
Do barrels, searfing, and rolling the scarf	-	Springfield, Mass.	Oct. 15, 1824
Do stocks, crooking	-	Charleston, S. C.	April 12, 1826
Hair, pulling from skins	-	Pennsylvania	June 28, 1803
Do extracting from fur and peltry	-	Brattleboro', Vt.	March 1, 1809
Do do do	-	Walpole, N. H.	Feb. 12, 1810
Do	-	John Hollingshead & Daniel Baker	
Do separating from skins	-	Samuel Brooks	Aug. 19, 1813
Do do do fur	-	John McDonald	April 4, 1822
Do hackling	-	William Chubb	Sept. 11, 1827
Hammer for cutting and dressing granite	-	Joseph Richards	July 9, 1829
Do cast iron	-	Thomas Jones	Feb. 20, 1828
Do for nails	-	Charles A. Strong	July 31, 1828
Harpoon	-	Jonathan Sizer, 2d	March 3, 1829
Hats, napping	-	James Long	Oct. 16, 1829
Do manufacturing	-	Ezra Corning, jr.	Aug. 5, 1799
Do do and preparing fur	-	George Cleveland	June 13, 1803
Do do chip	-	Amos D. Allen	Sept. 9, 1803
Do do and bonnets, cutting chips for	-	Amos D. Allen and Asahel Kelsey	May 10, 1804
Do frame for wool	-	Richard Gookins	Do
Do planking, and making cloth without yarn	-	Joseph Pitkin and Timothy Kimball	Sept. 5, 1804
Do manufacturing without bowing	-	Roswell Pitkin	Jan. 24, 1806
Do caps, &c., application of bark for manufacturing	-	Sylvester G. Whipple	Oct. 19, 1807
Do bowspring for	-	Daniel Nichols	April 23, 1808
Do manufacturing	-	Henry Lainhart, jr.	April 17, 1807
	-		March 1, 1809
	-		July 6, 1809

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Hats, planking -	-	-	-
Do manufacturing military	John Gregg	Green county, Pa.	Mar. 14, 1810
Do do	Shubael Hoskin	Catskill, N. Y.	April 30, 1810
Do plank and felting	Samuel Tiballs, jr.	Tyringham, Mass.	Dec. 26, 1810
Do steaming and hardening	Israel Swaim	Haverhill, N. H.	March 7, 1811
Do paper	Jonathan Sizer	New London, Ct.	Nov. 6, 1811
Do composition of materials for making	Joseph Ford and John White	Boston, Mass.	Nov. 25, 1811
Do bowing wool for -	Frederick Messer	Guildhall, Ct.	Jan. 23, 1812
Do forming wool and rorum -	H. S. Holladay and E. G. Griffin	Lyme, Ct.	June 6, 1812
Do manufacturing from a mixture of clother's frocks with sheep's wool	John Warely	Albany, N. Y.	Oct. 14, 1813
Do bowing fur and wool	Jedediah Carleton	Salem, N. H.	Jan. 21, 1814
Do manufacturing	Edward C. Griffing	Lyme, Ct.	Aug. 10, 1815
Do do cemented	Jehiel Bryant and Jno. Bryant	Saratoga, N. Y.	Aug. 26, 1815
Do blocking -	Nathan Weston	Reading, Mass.	May 24, 1816
Do plank kettle for	David Beard	Guilford, N. C.	May 28, 1816
Do manufacturing	Schuyler Fisher	Herkimer co., N. Y.	July 15, 1816
Do water-proof stiffening for stiffening	Wm. Goodrich	Philadelphia, Pa.	Aug. 20, 1816
Do manufacturing	Wm. Ruckles	Baltimore, Md.	Nov. 28, 1817
Do rounder and gauge	A. & G. V. Raymond	Do	Feb. 7, 1818
Do water-proof stiffening for	Silas Mason	Norfolk, Mass.	Feb. 20, 1819
Do	Samuel Jones	Bridgeport, Pa.	June 2, 1819
Do	Johan H. Tilge	Washington, D. C.	Sept. 23, 1819

elastic water-proof napping with rabbit's fur -	-	Westfield, R. I.	Feb. 17, 1820
Do lathes for stiffening	-	Alexandria, D. C.	Oct. 2, 1820
Do machine for setting up	-	Baltimore, Md.	Nov. 20, 1820
Do weaving grass	-	Providence, R. I.	Aug. 11, 1821
Do coloring	-	Merrimac, N. H.	Feb. 16, 1823
Do steaming and hardening	-	Danbury, Ct.	Nov. 20, 1823
Do dying	-	Do	April 2, 1824
Do bodies, winding and setting up	-	Trenton, N. J.	Aug. 27, 1824
Do planking kettle for	-	Providence, R. I.	April 28, 1825
Do dying	-	Brooklyn, N. Y.	June 6, 1825
Do planking wool	-	Warwick, N. Y.	Nov. 8, 1825
Do pressing Leghorn, straw, and other	-	Bath, Me.	Dec. 31, 1825
Do finishing -	-	Philadelphia, Pa.	May 23, 1826
Do manufacturing by steam	-	J. Cooper and P. Barnett	-
Do planking -	-	Wm. Harkins	May 31, 1826
Do cards or jacks for	-	Robert Bacon	Dec. 29, 1826
Do bodies, setting up.	Improvement on Grant's ma-	Joseph C. Seely	Jan. 31, 1827
Do water-proof stiffening for	-	Joseph Grant	Mar. 15, 1827
Do bowing, and gearing cones	-	Stephen Hempstead, Jr.	April 10, 1827
Do water-proof stiffening	-	Truman F. Mayhew	May 25, 1827
Do manufacturing	-	Stephen Hempstead, jr.	Aug. 22, 1827
Do carding	-	George L. Thatcher	Oct. 26, 1827
Do bodies	-	Isaac Sanford	May 31, 1828
Do	H. F. West and A. H.	Brockley, Pa.	Oct. 10, 1828
Do	Stevens	Richland, N. Y.	Oct. 29, 1828
Do	Benjamin Lapham &	Canaan, N. Y.	April 15, 1829
Do	E. Cady	Falmouth, Mass.	June 11, 1829
Do	A. Clarke & H. Chase	Norwalk, Ct.	June 19, 1829
Do	Levi Van Hoesen		

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEE'S.	RESIDENCE.	WHEN ISSUED.
Hats, stiffening	Jonathan D. Wilson	New York	Aug. 6, 1829
Do scalding and napping	Daniel Baldwin	Ithaca, N. Y.	Oct. 15, 1829
Do bodies, forming	Orlando Root	Montgomery co., N.Y.	Dec. 19, 1829
Hatters' fur machine	Nicholas Young	Pennsylvania	May 14, 1802
Heddles metallic, for weaving	Walter Janes and David Bolles	Ashford, Ct. Massachusetts	April 26, 1815 June 10, 1803
Hinges, machine for making	David Morse	Plymouth, Mass.	May 16, 1808
Do do do friction roller	John Bailey, jun.	Newburyport, Mass.	July 3, 1810
Do cast, or making them of metal in a fluid state	George A. Rogers	Burlington, N. J.	Oct. 31, 1812
Do elliptical	Mark & Rd. Reeve	Boston, Mass.	May 18, 1814
Do casting iron	Cyrus Alger	Williamsburg	May 4, 1805
Hone, metallic	John Houston	West Newbury, Mass.	Feb. 2, 1828
Horn, pressing for combs	Uriah Bailey	Massachusetts	June 26, 1797
Iron hoop, straightening	Benjamin Seymour	-	Feb. 26, 1799
Do casting	William Hancock	Philadelphia, Pa.	Nov. 12, 1807
Do manufacturing	James Butland	New York	Dec. 24, 1807
Do do hoop and sheet	Jeremiah H. Pierson	Do	April 28, 1825
Do splaying or flaring	Noah Sutton	Springport, N. Y.	Mar. 11, 1828
Do bending for steam boilers	Calvin Post	Philadelphia, Pa.	Nov. 6, 1828
Do manufacturing malleable	B. B. Howell	Marshfield, Mass.	April 21, 1825
Do slitting	Jesse Reed	-	-
Ivory, machine for junking	Lynus Pratt and F. Bush	Meriden, Ct.	Feb. 9, 1828
Jenny, vertical	James Matthews	Schenectady, N. Y.	May 2, 1826
Keys, watch	Joseph S. Davis	Providence, R. I.	April 3, 1827

Lace, coach Do millinet, &c. weaving	William G. Barnett -	Newark, N. J.	Nov. 18, 1825
Stephen Steward -	Cheshire, N. H.	Dec. 31, 1813	
Simeon Stedman -	Hartford, Ct.	July 25, 1818	
Amos Haggert -	Middlesex co., Mass.	June 10, 1809	
William Ross -	Chester co., Pa.	July 10, 1809	
John Drummond -	New York -	July 24, 1813	
Benjamin Hoadley -	New Haven, Ct.	Dec. 16, 1814	
William Lawrence -	Meriden, Ct.	April 12, 1815	
Samuel Rogers -	Bridgewater, Mass.	June 24, 1818	
Daniel Dana and An-	Canton, Mass.	Aug. 24, 1818	
thony Holmead -	N. Providence, R. I.	Aug. 30, 1819	
John Whitehead -	Shutesbury, Mass.	June 8, 1826	
John Hunt -	Leverett, Mass.	Jan. 19, 1828	
Jefferson Moore -	Pendleton, Columbia, S. C.	{ May 5, 1828	
John Sitton and Jas.	Gardner, Me.	Dec. 9, 1829	
A. Black -			
Elijah Putnam -			
Cotton White and A.			
Hill -	Hadley, Mass.	Mar. 30, 1824	
Lauren Merian -	New Haven, Ct.	Jan. 4, 1815	
Thomas Ewbank -	New York -	May 30, 1823	
Lewis Child -	New York -	Oct. 4, 1817	
William Smith -	New York -	May 9, 1805	
W.P. Smith & J. Odell -	Durham, N. H.	July 17, 1810	
Richard Gaines -	Georgetown, D. C.	Mar. 17, 1806	
A. O. Stansbury -	New York -	Feb. 11, 1807	
J. Perkins -	Newburyport, Mass.	Mar. 23, 1813	
William Pie -	New York -	Aug. 5, 1813	
Do -	Do -	April 28, 1818	
Do -	Do -	April 28, 1818	
Do -	Attleborough, Mass.	July 17, 1818	
securing from being picked	George W. Robinson		

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Locks -	- Henry & Jac. Day -	New York -	April 4, 1820
Do and latches -	- H. Durkee, assignee of J. Chittenden -	Burlington, Vt. New York -	Aug. 12, 1820 Nov. 2, 1821
Do and bolts for sliding doors -	- Thomas Whaley -	Boston, Mass.	May 18, 1822
Do and latches for doors -	- Joel F. Thayer -	Do -	Nov. 28,
Do -	- Eb. Leman, jr. -	Belfast, Me.	Mar. 31,
Do spiral spring -	- Nathan Reed -	New York -	April 20,
Do spiral and spring latch bolt -	- Richard Wilcox -	New Brunswick, N.J.	Feb. 9, 1825
Do mortice and door -	- Abraham Blauvelt -	Boston, Mass.	Sept. 29, 1825
Do -	- Turner Whitehouse -		
Do -	- John Brown & Geo.		
W. Robinson -	- W. Robinson -	Providence, R. I.	Feb. 20, 1827
Truman Bartholomew -	- Truman Bartholomew -	New York -	April 3, 1829
James Patterson -	- James Patterson -	Pittsburg, Pa.	Oct. 19, 1829
Amos Whittemore -	- Amos Whittemore -	Massachusetts	Nov. 17, 1796
David Grieve -	- David Grieve -		June 5, 1797
Philip Bennet -	- Philip Bennet -		Feb. 8, 1806
Charles Cooper -	- Charles Cooper -	Lebanon, Pa.	Nov. 4, 1808
Robert Lloyd -	- Robert Lloyd -	Philadelphia, Pa.	Feb. 8, 1810
Walter Janes -	- Walter Janes -	Ashford, Ct.	Sept. 1, 1810
Philo C. Curtis -	- Philo C. Curtis -	Paris, N. Y.	Nov. 17, 1810
Thomas Mussey -	- Thomas Mussey -	Philadelphia, Pa.	Mar. 4, 1811
Nathaniel Perry -	- Nathaniel Perry -	Boston, Mass.	Sept. 25, 1811
Ephraim Cutler -	- Ephraim Cutler -	Walpole, N. H.	Sept. 27, 1811
Richard C. Rogers -	- Richard C. Rogers -	Maine	Nov. 29, 1811
do for weaving chips -	- do for weaving chips -		
do girth and cloth -	- do girth and cloth -		
do water -	- do water -		
do crank -	- do crank -		
do -	- do -		

do	hand and water	Richard Crosbie	Jan. 6, 1812
Do	-	John Thorp	Mar. 28, 1812
Do	-	Asa Campbell	Mar. 28, 1812
Do	-	Cyrus Shepard	Mar. 28, 1812
Do	-	Richard C. Rogers	April 27, 1812
Do	-	John Phelps	June 23, 1812
Do	-	C. Cooper & G. Shaake	Aug. 27, 1812
Do	-	John Heavin	Aug. 28, 1812
Do	-	Walter James	Oct. 16, 1812
Do	-	Shepard Briggs	Mar. 20, 1813
Do	-	Alfred Ware, Jr.	May 27, 1813
Do	-	Thos. R. Williams	June 18, 1813
Do	-	Elisha Robinson	July 3, 1813
Do	-	John Hess	July 24, 1813
Do	-	Elb. Herrick	July 24, 1813
Do	-	Robert Sugden	Oct. 2, 1813
Do	-	John M. Guiramond	Oct. 22, 1813
Do	-	Calvin Whitney	Dec. 2, 1813
Do	-	John Heavin	Jan. 7, 1814
Do	-	Daniel Briggs	Feb. 1, 1814
Do	-	Brightberry Brown	Feb. 18, 1814
Do	-	J. Coulter & S. Gano	Feb. 19, 1814
Do	-	Jac. Spinkle	Mar. 21, 1814
Do	-	Thomas Siddall	April 18, 1814
Do	-	Charles Hathaway	April 27, 1814
Do	-	William Wright	July 9, 1814
Do	-	Seth Craig	Oct. 11, 1814
Do	-	John Brasier, Jr.	Oct. 12, 1814
Do	-	Salmon Bronson	Oct. 18, 1814
Do	-	William Squire	Oct. 28, 1814
Do	-	S. Blydenburgh and Hez. Healy	Nov. 25, 1814
Do	-	-	Jan. 17, 1815
Do	-	-	Feb. 20, 1815

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.		NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Loom	-	F. C. Lovell and P. T. Jackson	Boston, Mass.	Feb. 23, 1815
Do	-	Joseph Jelleffs	Butternuts, N. Y.	May 24, 1815
Do	-	C. Cooper & G. Shalk	Lebanon, Pa.	May 31, 1815
Do	water	Philo C. Curtis	Paris, N. Y.	May 28, 1816
Do	-	Robert Jackson	Attleboro, Pa.	July 23, 1816
Do	upright power stocking	C. Shepard & J. Thorp	Taunton, Mass.	July 25, 1816
Do	-	Aaron Porter	Queensbury, N. Y.	Aug. 22, 1816
Do	-	Samuel Chapman	Otsego, N. Y.	Aug. 30, 1816
Do	water	Thomas Mussey	New London, Ct.	June 10, 1817
Do	-	Benjamin Cummings	Townsend, Mass.	Oct. 3, 1817
Do	Lint	Francis Hall	Charlestown, Mass.	Nov. 28, 1817
Do	-	Edmund Warren	New York	Aug. 27, 1818
Do	-	Lot Forrester	Ridgefield, Ct.	May 15, 1819
Do	power	William Gilmour	Smithfield, R. I.	Oct. 28, 1820
Do	-	Edmund Warren	New York	Dec. 11, 1821
Do	domestic	Benjamin Maltby	Do	April 13, 1822
Do	-	Edmund Warren	Do	May 1, 1822
Do	-	C. Whiting, J. Goulding, and W. James	Dedham, Mass.	June 25, 1824
Do	-	Roswell Wilcox	Columbus, O.	Mar. 21, 1825
Do	wire power	Jos. Scholfield	Stonington, Ct.	Sept. 9, 1825
Do	carpet	John S. Justin	New York	Feb. 23, 1826
Do	-	Horace Baker	North Salem, N. Y.	April 14, 1826
		Roswell Wilcox	Franklin co., O.	April 21, 1826

Do	domestic power	-	Cornelius Bergen	New York	-	June 14, 1826
Do	taking up the cloth uniformly	-	Samuel Chidester	Windham, N. Y.	-	Sept. 2, 1826
Do	for weaving figured goods	-	Jer. Hubbard	Jamestown, N. C.	-	Nov. 6, 1826
Do	satinet power	-	William B. Leonard	Fishkill, N. Y.	-	May 23, 1827
Do	check and plaid power	-	Do	Do	-	May 23, 1827
Do	figure cloth	-	Horace Baker	North Salem, N. Y.	-	Aug. 30, 1827
Do	power	-	Richard Mitchell and N. Butterworth	Troy, Mass.	-	Mar. 22, 1828
Do	Mantle pieces, cast iron	-	E. Burt, O. D. Boyd, and A. H. Boyd	Manchester, Ct.	-	Aug. 19, 1828
Do	Mats, manufacturing from manilla and other grass	-	William Leavally	Canterbury, Ct.	-	Mar. 20, 1819
Do	Metallic substances, cutting	-	Amasa Stone	Providence, R. I.	-	April 30, 1829
Do	Moulds, for casting tunnel heads	-	Isaac Deavys	Philadelphia, Pa.	-	Feb. 21, 1821
Do	machine for opening glass blower's	-	Samuel S. Williams	Roxbury, Mass.	-	Aug. 22, 1828
Do	Mule, carriage for spinning cotton	-	John H. Hall	Harper's Ferry, Va.	-	Mar. 7, 1827
Do	for spinning cotton	-	Eb. Lester	Little Falls	-	Feb. 12, 1807
Do	drums, preparing grooves	-	Deming Jarves	Boston, Mass.	-	Feb. 2, 1821
Do	self operating	-	William Haworth	Providence towns' Pa.	-	June 2, 1824
Do	Nails, manufacturing	-	Thomas Walker	Chester co., Pa.	-	June 26, 1828
Do	do	-	J. Butterworth	Philadelphia, Pa.	-	Dec. 30, 1828
Do	cutting	-	Ira and A. Gay	Dunstable, N. H.	-	April 10, 1829
Do	do	-	S. Briggs, sen. and jr.	Philadelphia, Pa.	-	Aug. 2, 1791
Do	do	-	Thomas Perkins	Pennsylvania	-	Feb. 7, 1794
Do	manufacturing	-	Jacob Perkins	Boston, Mass.	-	Jan. 16, 1795
Do	and brad cutting	-	Josiah G. Person	New York	-	Mar. 23, 1794
Do	cutting	-	Jared Byington	Connecticut	-	Jan. 15, 1796
Do	do	-	Peter Zacharie	Maryland	-	May 4, 1796
Do	manufacturing	-	Peter Cliff	Massachusetts	-	Nov. 16, 1796
Do	do	-	Isaac Garretson	Pennsylvania	-	Nov. 16, 1796
Do	and heading	-	Amos Whittmore	Massachusetts	-	Nov. 19, 1796
Do	do	-	John Bigelow	Connecticut	-	Nov. 19, 1796
Do	manufacturing	-				

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Nails, cutting and heading	Geo. Chandler	Maryland	Dec. 12, 1796
Do do	Daniel French	Connecticut	Dec. 23, 1796
Do wrought	Do	Do	Dec. 23, 1796
Do heading	Jared Byington	Do	Dec. 23, 1796
Do do	Jason Frost	Do	Dec. 23, 1796
Do do	James Spence	New York	Dec. 23, 1796
Do do	Jesse Kersey	Pennsylvania	Feb. 16, 1797
Do cutting and heading	Jonathan Nevill	Massachusetts	Feb. 24, 1797
Do manufacturing	Lester Fling	Vermont	Aug. 12, 1797
Do cutting and heading	Nathan Reid	Massachusetts	Dec. 19, 1797
Do manufacturing	Seth Hart	Connecticut	Jan. 8, 1798
Do do	Jac. Perkins	New York	Jan. 4, 1799
Do cutting and heading	Fred. Young	Virginia	Feb. 14, 1799
Do manufacturing	Michael Garber	New York	Aug. 23, 1800
Do do	Nathan Kent	Massachusetts	Feb. 20, 1801
Do do	Jesse Reed	New Hampshire	May 1, 1801
Do do	William Leslie	Kentucky	June 9, 1801
Do cutting	Edward West	Do	Nov. 5, 1801
Do do and heading	Do	Massachusetts	July 6, 1802
Do manufacturing	Nathan Fobes	Do	July 6, 1802
Do heading	Matthew C. Groves	Virginia	Aug. 2, 1802
Do manufacturing	William Caruthers	Do	Sept. 3, 1802
Do do	Oliver Bartlett, Otis	Virginia	Dec. 13, 1802
	Bartlett, & George		
	Bartlett		Feb. 17, 1803

Do	do	and brads from rolled iron	-	Lazarus Ruggles	Oct. 18, 1803
Do	do	cutting and rolling iron	-	Joseph Elgar	Dec. 16, 1803
Do	manufacturing	-	-	Samuel Rogers and	
Do	do	and spikes	-	Melville Otis	Massachusetts
Do	cutting	-	-	Michael Garber	Staunton, Va.
Do	do	-	-	Burgess Allison and	
Do	brads and springs	-	-	Richard French	New Jersey -
Do	cutting and heading	-	-	Nicholas Boureau	June 8, 1804
Do	do	-	-	Fred. Wm. Geyssen-	Aug. 21, 1804
Do	and brad machine	-	-	hamer	
Do	wrought	-	-	Increase Kimball	Dec. 22, 1804
Do	sheathing, casting in moulds	-	-	Jesse Reed	May 1, 1805
Do	cutting and heading	-	-	Elisha Bigelow	Feb. 22, 1807
Do	do	-	-	Jordan Dodge	April 1, 1807
Do	heading	-	-	Jonah Nichols	Rutland, Vt.
Do	cutting and heading	-	-	Thomas McIlwhan	Rhode Island
Do	Do	-	-	Simon Willard	Princeton, N. J.
Do	Do	-	-	Samuel Rogers	Hudson, N. Y.
Do	Do	-	-	Jonathan Hicks	Plymouth, Mass.
Do	Do	-	-	Joseph J. Melf	Hadley, Mass.
Do	Do	-	-	Asa Chandler & Silas	Butternuts, N. Y.
Do	Do	-	-	Shepherd	Taunton, Mass.
Do	cutting and plating machine	-	-	Stephen Conch and	Sept. 16, 1808
Do	do and heading, wheel for	-	-	Asa Towne	Boston, Mass.
Do	manufacturing	-	-	Jesse Reed	Kingston, Mass.
Do	cutting	-	-	Samuel Wilmot, jr.	New Haven, Ct.
Do	manufacturing	-	-	Luther Bissell	Hartwick, N. Y.
Do	iron, brass, and composition, casting	-	-	Jos. and John Elgar	Yorktown, Pa.
Do	cutting	-	-	Joseph Walworth	New York -
Do	and brad cutting	-	-	Briggs R. Reed	Danvers, Mass.
			-	Jac. Perkins	Boston, Mass.

LIST OF PATENTS.—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Nails eccentric roller machine -	- John Fairbanks	Boston, Mass.	Aug. 14, 1810
Do cutting and heading -	- Briggs R. Reed	Salem, Mass.	Aug. 18, 1810
Do do -	- Jesse Reed	Kingston, Mass.	Sept. 16, 1810
Do do -	- William Miller	New York -	Sept. 26, 1810
Do and brad cutting -	- John P. Sawin and Jac. Skinner	Roxbury, Mass.	Feb. 8, 1811
Do and spike machine -	- Abijather Eastman	Norway, Mass.	April 8, 1811
Do vibrating plates for cutting -	- Jos. Bernard	Troy, N. Y.	April 16, 1811
Do vertical balance wheel for cutting -	- Eb. A. Lester	Herkimer, N. Y.	May 8, 1811
Do cutting and heading -	- Jesse Reed	Kingston, Mass.	Aug. 14, 1811
Do manufacturing hot heading -	- Mark Reeve & Richard Reeve	Philadelphia, Pa.	Nov. 14, 1811
Do compound lever and parallel shaft for manufacturing cutting and heading -	- Robert Turner	Boston, Mass.	Nov. 25, 1811
Do manufacturing -	- Josiah White	Philadelphia, Pa.	Jan. 11, 1812
Do do improved on Newell's	- Mark and Rd. Reeve	Burlington, N. J.	Feb. 3, 1812
Do	- Nathaniel Chickering & Dan. Chickering	Dover, Mass.	March 9, 1812
Do	- Mark and Rd. Reeve	Burlington, N. J.	Oct. 31, 1812
Do brass, copper, and composition manufacturing cutting and heading -	- George W. Robinson	Attleborough, Mass.	Mar. 17, 1813
Do do	- Mark and Rd. Reeve	Philadelphia, Pa.	April 16, 1813
Do manufacturing, improvement on Reeve's, patented February 3d, 1812, October 31st, 1812, and March 16th, 1812	- Henry Lutgen	Marietta, Pa.	Sept. 8, 1813
Do cutting -	-	-	Sept. 28, 1813
Do	- Richard Moore	-	Jan. 13, 1814
	-	Philadelphia, Pa.	
	-	Lycoming, Pa.	

Do heading	-	-	Samuel Rogers	-	Bridgewater, Mass.	-	Jan. 26, 1814
Do brad and spring cylindrical machine	-	-	Robert Turner	-	Boston, Mass.	-	Feb. 21, 1814
Do cutting, vibrating machine	-	-	Eb. A. Lester	-	Herkimer, N. Y.	-	April 2, 1814
Do heading, cut	-	-	James Davey	-	Fairhaven, Ct.	-	April 7, 1814
Do brads and spikes, cutting all sizes	-	-	Stephen Belknap	-	Washington, D. C.	-	April 8, 1814
Do cutting and heading	-	-	Samuel Rogers	-	Bridgewater, Mass.	-	Oct. 21, 1814
Do do	-	-	Jesse Reed	-	Hanover, Mass.	-	Oct. 22, 1814
Do manufacturing	-	-	Do	-	Do.	-	Dec. 16, 1814
Do do	-	-	Nathan Elgar	-	York, Pa.	-	June 19, 1815
Do do	-	-	John Elgar	-	Do	-	June 21, 1815
Do cutting and heading	-	-	Nathan Elgar	-	Do	-	July 25, 1815
Do manufacturing	-	-	Erastus Bartholomew	-	Boston, Mass.	-	Aug. 18, 1815
Do heading	-	-	& Wm. Church	-	Troy, N. Y.	-	Sept. 6, 1815
Do manufacturing	-	-	Henry Sedam	-	Sackett's harbor, N. Y.	-	Oct. 21, 1815
Do do	-	-	Charles Philips, Jr.	-	Jefferson, N. Y.	-	Oct. 21, 1815
Do cutting and heading	-	-	William Waring and	-	Newburyport, Mass.	-	Nov. 1, 1815
Do manufacturing	-	-	Charles Philips	-	Baltimore, Md.	-	Dec. 27, 1815
Do	-	-	Jacob Perkins	-	Philadelphia, Pa.	-	Feb. 24, 1816
Do	-	-	Eb. A. Lester	-	Georgetown, D. C.	-	Mar. 14, 1816
Do	-	-	Henry Hays	-	Philadelphia, Pa.	-	June 26, 1816
Do	-	-	Frederick A. Russell	-	Do	-	June 27, 1816
Do	-	-	Mark Reeve	-	Timothy Newhall, Jr.	-	Sept. 7, 1816
Do	-	-	Do	-	Roswell Noble	-	Dec. 17, 1816
Do	-	-	Do	-	Isaac Northrop	-	Jan. 7, 1817
Do	-	-	Do	-	Elisha Bigelow	-	Jan. 29, 1817
Do	-	-	Do	-	Heman McCluer	-	April 18, 1817
Do	-	-	Do	-	Joseph Kells and Jos.	-	June 10, 1817
Do	-	-	Carter	-	Carter	-	Dec. 31, 1817
Do	-	-	Melville Oti	-	Philadelphia, Pa.	-	
					Boston, Mass.	-	

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Nails, manufacturing sprigs and brads -	Roswell Noble -	Baltimore, Md. -	May 17, 1819
Do " do -	Daniel Pool -	Zanesville, O. -	Mar. 22, 1820
Do " do -	Abel Smith -	Do -	Mar. 22, 1820
Do " do -	Thomas Morgan -	Hempstead, N. Y. -	Sept. 5, 1821
Do " do -	George Thompson -	Philadelphia, Pa. -	Sept. 15, 1821
Do " do -	Lemuel Bolles -	New York -	Sept. 19, 1822
Do " do -	Leonard Norcross -	Livemore, Me. -	May 18, 1824
Do " do -	Thomas Morgan -	Patterson, N. J. -	June 17, 1824
Do " do -	Jesse Reed -	Marshfield, Mass. -	April 21, 1825
Do " do -	Do -	Do -	April 21, 1825
Do " do -	Henry Burden -	Troy, N. Y. -	May 26, 1825
Do " Krauser -	Philadelphia, Pa. -	Philadelphia, Pa. -	Sept. 23, 1826
Thomas Odiorne -	Morgan, Mass. -	Morgan, Mass. -	April 3, 1829
Samuel G. Reynolds -	Bristol, R. I. -	Bristol, R. I. -	April 13, 1829
Stephen J. Gould -	Litchfield, Ct. -	Litchfield, Ct. -	July 25, 1829
Shadrack Davis, jr. -	Dartmouth, Mass. -	Dartmouth, Mass. -	Dec. 8, 1829
Samuel Mulliken -	Philadelphia, Pa. -	Philadelphia, Pa. -	Mar. 11, 1791
Samuel G. Door -	Albany, N. Y. -	Albany, N. Y. -	Oct. 20, 1792
William Burt -	Barre, Vt. -	Barre, Vt. -	June 23, 1797
John Mathes -	Providence, R. I. -	Providence, R. I. -	May 27, 1813
Isaac Sanford -	Hudson, N. Y. -	Hudson, N. Y. -	Mar. 26, 1814
Daniel Merwin and Horace Killogg -	Smith -	Smith -	Oct. 28, 1814
T. S. Barnum and E. Smith -	Litchfield, Ct. -	Litchfield, Ct. -	April 4, 1815

Do	do	do					Ackworth, N. H.	May 29, 1815
			John Davidson				Waltham, Mass.	Oct. 28, 1815
			John Taylor				Elizabethtown, N. J.	Jan. 24, 1816
			Jos. A. Christie					
			Eli Starr and Nathan					
			Couch				Sullivan twnsh. N.Y.	
			Bishop N. Parsons				New York	Mar. 20, 1817
			John J. Bryant				Andover, N. H.	April 16, 1817
			Levi & Jed'v Prescott				Pittsburg, Pa.	Sept. 2, 1818
			John Bryan and S. D.					Nov. 5, 1818
			Fuller				Mendam co., N. J.	
			Job Wilkinson				New York	April 4, 1820
			Stephen Marsh				Fairfax, Vt.	May 12, 1825
			Samuel Duncan				Northampton, N. Y.	July 20, 1825
			M. R. Norris and L.					Jan. 21, 1828
			Phillips				Covington, N. Y.	
			Zachariah Allen				Providence, R. I.	
			Jos. B. Nones				Philadelphia, Pa.	
			William F. Hill				New York	
			James Drummond				New York	
			Henry Horn				Philadelphia, Pa.	
			Daniel French				Middleton, Ct.	
			Michael Morrison				New Bedford, Mass.	
			Daniel Rider				New York	
			Ez. Waterhouse				Gardiner, Me.	
			Isaac Maccauley				Philadelphia, Pa.	
			Paulus Hedd				New York	
			Jos. S. Lewis				Do	
			David H. Mason				Philadelphia, Pa.	
			Uriah Bailey				W. Newbury, Mass.	
15	do	do					New York	Feb. 22, 1827
			Napping machine, vibrating					Nov. 7, 1820
			Do					
			Do					
			Do					
			Do					
			Do					
			Do					
			Do					
			Do					
			Do					
			Do					
			Do					
			Oil cloth, manufacturing					
			Ornamenting the tops of iron and other railing					
			Ornamental borders, casting					
			Do					
			rolls and stamps for book binders					
			Do					
			tortoise shell combs					
			Pans, baking or burning					

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Pans, milk, manufacturing Do do of stone ware	Amos Miner Sauford S. Perry	Camillus, N. Y. New York	July 20, 1825 Sept. 9, 1825
Paper moulds	Jno. Carnes	Delaware	April 11, 1793
Do making	John Biddis	Pennsylvania	Mar. 31, 1794
Do do	Cyrus Austin	New Jersey	Dec. 14, 1798
Do do	Robert R. Livingston	New York	Oct. 28, 1799
Do do from currier's shavings	Jos. Condit, Jr.	New Jersey	Dec. 28, 1801
Do do corn husks	Burgiss Allison and Jno. Hawkins	Do	Do
Do machine for preparing top and swinged tow making	Abn. Frost	Bucks co., Pa.	Dec. 30, 1802
Do trimming machine	Thos. Langstroth	Philadelphia, Pa.	Mar. 19, 1804
Do making	Parke Shee	Essex, N. J.	May 1, 1804
Do polishing machine	Chas. Kinsey	Boston, Mass.	Feb. 7, 1807
Do making from sea weed	Wm. Coolidge	New London co.	May 8, 1807
Do moulds	Sam'l Green	Whitestown, N. Y.	April 18, 1808
Do hot pressing	Phares Barnard	Salisbury, Pa.	Feb. 15, 1809
Do and calico printing	Francis Bailey	Philadelphia, Pa.	July 7, 1809
Do hangings with satin grounds	Jos. Hartshorne	Wilkesbarre, Pa.	July 31, 1809
Do making from pelts	Leonard Beatty	Hudson, N. Y.	April 20, 1810
Do cloth, &c., staining and printing	Hez. Steele	Do	Dec. 28, 1810
Do mark of opacity in	Jno. Mc'Horndike	Do	Sept. 8, 1813
Do vats, heating pulp in	Benjamin Mestayer	New York	March 7, 1814
	John Reich and Edward Star	Philadelphia, Pa.	June 28, 1815
	Joseph Robeson	Montgomery, Pa.	May 11, 1816
			May 22, 1816

Jac. Perkins and Thomas Gilpin	Philadelphia, Pa.	Dec. 18, 1816
Thomas Gilpin	Do.	Dec. 24, 1816
John B. Pignatelle	New York	Dec. 2, 1819
John Amies	Springfield, Mass.	May 14, 1822
Peter Force	Washington, D. C.	Aug. 22, 1822
Isaac Burbank	Worcester, Mass.	Sept. 8, 1824
George Bird	Walpole, Mass.	April 11, 1825
Joseph Woodhouse	Otsego, N. Y.	May 30, 1825
John McClintic and George Faber	Chambersburg, Pa.	Dec. 18, 1825
Gardner Burbank	Worcester, Mass.	April 12, 1826
Irah White and L. Gale	Newburg, Vt.	Feb. 28, 1827
John McClintic	Chambersburg, Pa.	Mar. 31, 1827
William Magaw	Meadville, Pa.	Mar. 8, 1828
Elisha H. Collier	Plymouth, Mass.	April 15, 1828
William Magaw	Meadville, Pa.	May 22, 1828
Marsden Haddock	New York	July 17, 1828
Richard Waterman and Geo. W. Annis	Providence, R. I.	Aug. 30, 1828
Mason Hunting	Waterbury, Mass.	Oct. 20, 1828
Andrew Sprague and Nich. A. Sprague	Fredonia, N. Y.	Oct. 31, 1828
John W. Cooper	Wash'ton Town's p, Pa.	Feb. 7, 1829
Isaac Sanderson	Milton, Mass.	April 18, 1829
Reuben Fairchild	Trumbull, Con.	May 4, 1829
J. and C. Sewall	Bath, Me.	Mar. 25, 1829
Joseph Saxton	Philadelphia, Pa.	April 11, 1829
William Jackson	Do	July 27, 1829
Michael Morrison	Boston, Mass.	Aug. 15, 1811
water marks		
Do making	trimming machine	
Do do	making from sea grass	
Do do	hay and straw by the flat press	
Do do	top press roller for	
Do do	from rags, whitening straw	
Do Do	cylindrical machine	
Do	making agitator	
	Patterns for moulding spikes, bolts, &c.	
	Pencil cases, ever pointed	
Do	do	
Picker; wool		

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Picker, wool and cotton	Ephraim Raymond	Norton, Mass.	Jan. 18, 1812
Do do -	Beriah Brown	Exeter, R. I.	Sept. 2, 1822
Do tube used in weaving	Benjamin Holbrook	Providence, R. I.	Feb. 21, 1826
Do cotton	James Pennell and Haber Maxon	Barbourville, Va.	Oct. 10, 1828
Pins, making of wire at one operation	Moses L. Morse	Boston, Mass.	Aug. 22, 1814
Do do -	Henry Weston	Philadelphia, Pa.	July 23, 1823
Do do -	Lemuel W. Wright	Manchester, England	Mar. 12, 1825
Pipes or tubes, casting	Willard Badger	Boston, Mass.	Dec. 26, 1808
Do making leaden	Richard Wall	Waterbury, Conn.	July 5, 1822
Plane irons, scythes, &c.	Daniel Pettibone	Philadelphia, Pa.	May 6, 1813
Do carpenter's	R. Welford and J. H. Deas	Do	May 14, 1821
Do irons	Per. Williamson	Baltimore, Md.	Sept. 9, 1825
Do revolving timber	Daniel M. Smith	Warwick, Mass.	Dec. 28, 1826
Do irons	Charles E. West	Colchester, Conn.	Jan. 10, 1827
Do stocks, cast iron	Hazard Knowles	Do	Aug. 24, 1827
Do sliding,	Jonathan Sparrow	Portland, Me.	Dec. 26, 1827
Do groove	S. Longanecker and Chas. Myers	Lancaster, Pa.	Feb. 7, 1829
Plates for pressing woollen cloths	Volkert Vedder	Amsterdam, N. Y.	Feb. 6, 1811
Do horizontal, for making holes	Benjamin King	Washington, D. C.	May 29, 1817
Do and sheets made from iron	Evan J. Ellicott	Baltimore, Md.	May 28, 1818
Do metallic for engraving and printing	David H. Mason	Philadelphia, Pa.	May 17, 1822
Polisher cylindric	Eb. Sowell	Middlebury, Vt.	Aug. 20, 1813

Polishing wheel, buff		June 6, 1814
Do powders for metal	-	Jan. 28, 1818
Do hard and soft substances	-	Mar. 27, 1827
Printing and forming colored figures on hard substances	-	Aug. 22, 1816
Pulleys for cogs	-	June 24, 1800
Punches for types, &c.	-	Jan. 29, 1791
Do making holes	-	April 2, 1822
Do for copper	-	Dec. 6, 1827
Do for straps	-	July 15, 1829
Do power press	-	July 21, 1829
Quills, machine for winding	-	New York -
Rags, machine for preparing	-	Northampton
Do cutting	-	Springfield, Mass.
Do do cleaning	-	E. Hartford, Conn.
Ramrods	-	Exeter, N. H.
Razor, machine for grinding	-	Virginia -
Do manufacturing	-	Providence, R. I.
Reeds for weavers	-	Otsego, N. Y.
Do do metallic	-	Patterson, N. J.
Reeding and fluting strait or spiral	-	John January
Reticules	-	William Winning
Ribbons, machine for smoothing and glossing	-	Charles Cromwell
Rivets, machine for making	-	Isiah Jennings
Do and bolt cutter by lever purchase	-	Holly Seely
Rollers for rolling iron, casting	-	Cyrus Alger
Do impressed, for making knives and forks, &c.	-	John Owings
Do covering for sizing	-	Everett Williams
Do calendar, heating for glazing	-	J. Bringhall and T.
Rolling mill machinery	-	Keyes, Jr. -
Do iron	-	Benjamin Seymour
	-	Henry Abbott
	-	West Boylston, Mass.
	-	Massachusetts
	-	Pennsylvania
	-	April 1, 1826
	-	June 26, 1797
	-	May 4, 1802

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Rolling iron for nails -	Jesse Reed -	Massachusetts -	July 15, 1802
Do and slitting mill -	Isaac Pierson -	New York -	Dec. 24, 1807
Do and moulding iron -	Josiah White -	Philadelphia, Pa. -	Mar. 14, 1810
Do iron for ship bolts -	Clement Rentgen -	West Chester, Pa. -	June 27, 1810
Do machine for reducing metal to bars or rods for making wire round or square -	Josiah White -	Philadelphia, Pa. -	May 15, 1812
Do bar iron edgeways -	George Ellicott -	Baltimore, Md. -	Sept. 20, 1816
Do metallic tubes -	Cyrus Eastman -	Hillsborough, N. H. -	April 16, 1818
Do mill for sheet iron, &c. -	Samuel Rogers -	Bridgewater, Mass. -	June 24, 1818
Do iron -	Anne S. Valentine -	Bellefonte, Pa. -	Jan. 3, 1827
Rope making -	Michael Wigglesworth -	Massachusetts -	June 26, 1799
Do yarn, spinning -	John Pittman -	Rhode Island -	Dec. 24, 1799
Do and twine machine -	Stephen Gorham -	Massachusetts -	Feb. 4, 1800
Do yarn, spinning -	Nathaniel Cutting -	Washington, N. Y. -	May 25, 1806
Do making -	John Sellers and Andrew Bartle -	Alexandria, D. C. -	May 5, 1807
Do yarn, spinning and winding -	Christian Berg and Peter Schermerhorn, jr. -	New York -	July 2, 1811
Do and twine machine -	John Heavin -	Montg'y c. h., Va. -	Aug. 3, 1813
Do yarn machine, called the effeminate spinner -	John Pittman -	Medford, Mass. -	Mar. 14, 1817
Do readies, gauge plate for making -	Robert Graves -	Boston, Mass. -	Dec. 31, 1819
Do making -	Eleazer Crain -	Springfield, Vt. -	Jan. 10, 1820
Do layer, combined jack and breastwork -	David Myerle -	Philadelphia, Pa. -	Mar. 3, 1827
Do reeding machine -	A. Boring and Wm. W. Jones -	Thornville, Ohio -	May 5, 1828

Rope making		June 11, 1829
Roping or roving flax and hemp		June 19, 1806
Do wool and cotton		Dec. 3, 1811
Do spinning machine		July 22, 1812
Do do		Ang. 8, 1812
Do do		Watertown, Mass.
Do do		Aug. 3, 1815
Do do		April 29, 1816
Do do		Sept. 18, 1818
Do do		July 22, 1819
Do Boston, Mass.		Jan. 19, 1821
Do Providence, R. I.		Jan. 23, 1821
Do Boston, Mass.		Feb. 19, 1821
Silas Shepard & Crom- well Dean		Mar. 23, 1821
Asa Arnold		Jan. 21, 1823
Z. Knox & W. Hos- kins		Aug. 16, 1824
A. Patterson and F. Burdock		Sept. 29, 1824
Sidney Whiting		Nov. 17, 1824
William Whitehead		April 11, 1825
Francis Burdick		May 30, 1825
William Carmichael		June 10, 1826
Wm. Whitehead, jr.		June 14, 1826
J. R. & J. B. Wheeler		Aug. 28, 1826
Gilbert Brewster		Mar. 28, 1827
Mark J. Brunell		Nov. 16, 1796
Richard Robotham		Oct. 10, 1801
New York		Massachusetts
John Fairbanks		Nov. 30, 1803
Daniel Brewer		April 22, 1803
John Fairbanks		Boston, Mass.
Do paper		Do
Do machine, cylindrical paper		Pennsylvania
Do do		Boston
Do cylindrical		Do

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Ruling machine Do do for paper Do do double Do do called the revolving ruler Do do hand	Asa Spencer - Lewis Henry - Tim. Newhall - Lemuel Hedge - G. Strowhauer and Frederick Sauxay - Richard Wilcox - George Crosbie - C. Lanuza - Joseph Chapman - James Richards - George P. Oakley - Zach. Cox - Thomas Cahoon - Samuel Barber & Nehemiah U. Tompkins - Isaiah Jennings - James Hamilton - Joseph Coppinger - Adam Stewart - William F. Hill - Robert Eastman and J. Jaquith - John Brown - Sylvanus Bonnell -	New London, Ct. Bellows Falls, Vt. Lynn, Mass. Windsor, Vt. Cincinnati, O. New York - Augusta, Me. New York - Frankfort, Pa. Patterson, N. J. Poughkeepsie, N. Y. Georgia - Cazenovia, N. Y. New York - Do - Brookfield, Mass. Frederick, Ga. Baltimore, Md. New York - Brunswick, Mass. Boston, Mass. Chatham, N. J.	Feb. 7, 1812 Aug. 24, 1816 Dec. 26, 1816 Mar. 3, 1817 Sept. 1, 1817 Sept. 4, 1823 Jan. 21, 1825 Aug. 13, 1828 July 9, 1821 Aug. 10, 1821 Nov. 25, 1818 Mar. 14, 1794 April 11, 1803 June 1, 1808 April 17, 1809 July 31, 1809 Mar. 19, 1810 July 5, 1817 July 11, 1818 Mar. 16, 1820 Aug. 13, 1823 Sept. 26, 1823
Do hand - Do wood - Do whip, driving - Do horizontal, vertical, or radial circular - Do do for clapboards -			

Do	for cutting veneers	Oct.	6,	1824
Do	compound rotary -	Sept.	29,	1825
Do	circular -	May	18,	1826
Do	vertical for fret work	April	22,	1826
Do	circular re-acting -	Dec.	8,	1826
Do	two-edged -			
Do	cylindrical -			
Do	circular, for clapboards			
Do	do revolving -			
Do	Do hanging and straining			
Do	Saw-belt or band			
Do	Saw-frame, armed			
Do	Saw-plates -			
Do	Saw setting machine			
Do	do do do and using saw teeth			
Do	do do do			
Do	do do do			
Do	do do do			
Do	do do do			
Do	do set spring -			
Do	do gauge -			
Do	Saw sharpener -			
Do	Screws, machine for cutting			
Do	Do iron, casting in moulds -			
Do	Do cutting wood -			
Do	Do casting metal -			
Do	Do cutting wooden -			
Do	Do machine for cutting -			
Do	Do machine for cutting -			
Philadelphia, Pa.		Aug.	31,	1827
Boston, Mass.		Aug.	29,	1828
Kennebec, Me.		Oct.	11,	1828
Southbury, Ct.		Feb.	19,	1829
Cazenovia, N. Y.		Oct.	13,	1829
Moses Cass & Aaron		July	5,	1817
Bull		June	18,	1828
Lewis B. Bump		Sept.	8,	1824
Jona. Fudder		Nov.	16,	1812
Tyler Howe -		Oct.	14,	1815
Levi Chapin -		Dec.	7,	1821
Adam Stewart		Oct.	28,	1822
Nathaniel Sperry		Dec.	2,	1822
James Cloud		Dec.	21,	1822
John Sonner		Do	-	
John Russell		Philadelphia, Pa.		
Webb Hart -		Do		
Joseph Beach		Westford, Vt.		
David C. Jordan		Sempronius, N. Y.		
Rufus Grundy		Rhode Island		
Joseph H. Schreiner		Herkimer, N. Y.		
John Boggs -		Abel Stowell		
Ira Hatch -		John Nicholson		
Solomon Morse		Robert Hancock, sen.		
David Wilkinson		& Edward W. Carr-		
E. Lester -		Elisha Hassard & Jo-		
Do		siah White -		
Do		Do		
Do		Mar.	1,	1811
Do		May	15,	1812

LIST OF PATENTS—FACTORY MACHINERY—Continued.

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Shearing cloth	Gershon Bostwick	Brookfield, Ct.	Sept. 28, 1812
Do do	George Booth	Poughkeepsie, N. Y.	Oct. 13, 1812
Do machine, horizontal	Thomas Blanchard	Sutton, Mass.	May 4, 1813
Do do	Silas Hills	Hudson, N. Y.	Oct. 22, 1813
Do zigzag	Edmund Durrin	Weatherfield, Vt.	Jan. 21, 1814
Do cloth	Isaac Sanford	Providence, R. I.	Mar. 26, 1814
Do do	Beriah Swift	Washington, N. Y.	July 1, 1814
Do do	C. H. Orth & Frederick Strohn	Steubenville, O.	Oct. 11, 1814
Do machine, vibrating	David Dewey	Poultney, Vt.	Dec. 7, 1814
Do do	William Stillman	Westerly, R. I.	April 28, 1815
Do cloth	Horace Osborne and William L. Fraser	Fredericktown, Md.	April 25, 1816
Do do	John D. Smith	Anson, Me.	May 24, 1816
Do do	James Collins	Frankfort, N. Y.	June 10, 1817
Do do	Eliphalet Remington	Westerly, R. I.	Aug. 13, 1817
Do do	William Stillman	Rutland co., Vt.	Jan. 17, 1818
Do do	David Dewer	Hosack, N. Y.	Mar. 16, 1818
Do do	Seth Parsons		Mar. 2, 1819
Do do	Elihu Hotchkiss and Aaron Jaque	Brattleborough, Vt.	Dec. 15, 1819
Do do	Zach. Cary	Oxford, Me.	Feb. 20, 1821
Do do	Ezra Heald	Norridgewock, Me.	Dec. 4, 1822
Do machine, or shears with curved edges	Samuel Fry	New York	Nov. 20, 1823
Do cloth	Beriah Swift	Washington, N. Y.	Feb. 7, 1824

		Mar. 6, 1827		Mar. 6, 1827
Do	do	Anson, Me.	and	New Hartford, Ct.
Do	do	Isaac Kellogg		Cazenovia, N. Y.
Do	do	George C. Kellogg		Augusta, N. Y.
Do	do	Samuel A. Britt		Worcester, Mass.
Do	do	Merritt Hurd		Essex co., Mass.
Do	do	William Hovey		Portsmouth, N. H.
Do	do	E. C. Toppan		New York
Do	rollers for	Mark Laighton		Patterson, N. J.
Do	and pulling blocks, moulding and casting	Henry Worrall		New York
Do	moulding bushes or cogs for	Thomas P. Walworth		New York
Do	blocks	Nathaniel H. Lewis		New York
Do	anti-friction, bush for	James Rudder		Norfolk, Va.
Do	cast iron for shipping	Francis Seymour		Plymouth, Mass.
Shot factory		Phineas Daniel		Philadelphia, Pa.
Do	pressure	Thomas Bruff		Washington, D. C.
Do	manufacturing	John W. Pope		Philadelphia, Pa.
Do	do	Peregrine Williamson		Baltimore, Md.
Do	do	Thomas Bruff		Washington, D. C.
Do	do	James M. Ludlum		New York
Do	do	Daniel Pettibone		Philadelphia, Pa.
Do	do	John W. Honey		Herculaneum, Mo.
Do	do	Upton Reid		Joppa & Roads, Md.
Do	do	Jona. Righter		Downton, Pa.
Do	and balls, casting of lead	John Brower		Bucks co., Pa.
Do	screening table	James Wood		Philadelphia, Pa.
Shovels, swagging or setting		Oliver Ames		Easton, Mass.
Do	sacket and sand	Elizabeth H. Bulkley		Colchester, Ct.
Do	sheet iron for barns	Samuel Cranston		Cumberland, R. I.
Do	and spades	John Goulding		Dedham, Mass.
Do	making	John Thrope		Providence, R. I.
Do	scythes, spades, &c. of cast steel and iron	Nathan Sellers		Philadelphia, Pa.
Shuttles, spindle spring				
Do	mode of throwing			
Do	for tying knots			
Sifter wire, rolling				

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Sifter, revolving coal	-	-	-
Silk, removing spots in	Thos. Borbridge and Anson Martin	Ringston township, Pa.	Dec. 30, 1826
Do staining and printing	Aaron & John Hall	Boston, Mass.	Dec. 31, 1817
Slitting mill	T. & W. Bryan	New York	June 29, 1821
Snuff cutter or grater	Tim. Allen "	Plymouth, Mass.	April 5, 1826
Spades and shovel handles	J. B. Partarien	New York	Nov. 30, 1812
Do pronged	Harrow Risley	Glastonbury, Ct.	May 1, 1829
Spectacles, and single eye glasses	Wm. B. Horton	Middleton, Ct.	June 15, 1829
Do spiral spring	S. Newton	Washington, D. C.	Dec. 22, 1827
Speder, double, for winding cotton	Samuel Babcock	Middleton, Ct.	April 3, 1829
Do do	William Hines	Coventry, R. I.	Feb. 6, 1819
Do No. 1	Paul Moody	Boston, Mass.	April 3, 1819
Do " 2	Jonathan Fish	Medway, Mass.	Dec. 7, 1820
Do " 3	Do	Do	Do
Do " 4	Do	Do	Do
Do " 5	Do	Do	Do
Do do	combination of improvements on the	Do	Do
Do do	Paul Moody	Waltham, Mass.	Dec. 30, 1820
Do do	Do	Boston, Mass.	Feb. 19, 1821
Do counter twisting	George Danforth	Norton, Mass.	Sept. 2, 1824
Do eclipse for cotton roping	Gilbert Brewster	Poughkeepsie, N. Y.	April 18, 1829
Spindles, diminishing the friction of	R. R. Livingston	Clermont, N. Y.	Aug. 4, 1791
Do for spinning	Asa Jillson	Dorchester, Mass.	May 27, 1815
Do and flyer	Do	Roxbury, Mass.	July 17, 1815

Do	and bobbin for spinning cotton preventing friction on for spinning cotton, &c.	-	Fishkill, N. Y.	Jan. 9, 1819
Do	Spinning machine, for flax and hemp do for cotton	-	Pickaway township, O.	July 6, 1827
Do	and twisting thread hemp and flax	-	Oldham, N. J.	July 14, 1827
Do	called the Delaware spinner	-	Philadelphia, Pa.	Mar. 17, 1791
Do	for flax, &c.	-	Do	Dec. 30, 1791
Do	do called the domestic spinner	-	Mount Pleasant, N.J.	Jan. 28, 1792
Do	family cotton	-	Flemingsbury, Ky.	June 28, 1809
Do	do called the pleasant spinner	-	Wilmington, Del.	Oct. 11, 1809
Do	and drawing wool	-	Greene co., N. Y.	Mar. 31, 1810
Do	or roving flax, &c., cylindrical frame for cotton, wool, flax, &c.	-	Albany, N. Y.	Aug. 17, 1810
Do	flax, &c. whirl or regulator for do reeling and spooling	-	Philadelphia, Pa.	June 22, 1811
Do	cotton, water frame for	-	Brookfield, N. Y.	Sept. 10, 1811
Do	machine, portable	-	Humphreysville, Ct.	Oct. 4, 1811
Do	do called the linen spinner	-	New York	Jan. 11, 1812
Do	for cotton	-	Barre, Vt.	Jan. 16, 1812
Do	do called the linen spinner	-	Woodbury, Ct.	Feb. 10, 1812
Do	do do perpetual wool spinner	-	Madison co., N. Y.	Mar. 14, 1812
Do	and roving machine	-	Hartford, Vt.	Mar. 16, 1812
Do	Samuel Comstock and Moses Pike	-	Philadelphia, Pa.	April 27, 1812
Do	John Brown	-	Vermont	May 6, 1812
Do	L. Bissell, J. Hinman, L. C. Hinman, & Benoni Gains	-	Fitchburg, Mass.	Nov. 19, 1812
Do	Hartwick, N. Y.	-	Greene co., N. Y.	Dec. 21, 1812
Do		-	Burlington, N. J.	Mar. 3, 1813
Do		-	Harrisburg, Pa.	April 15, 1813
Do		-	Providence, R. I.	May 12, 1813
Do		-	Hartwick, N. Y.	June 19, 1813

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Spinning machine (patented June 28th, 1809) Do hair of neat cattle	Nathaniel Foster Wm. Shotwell and Arthur Kimball	Flemingsbury, Ky.	July 8, 1813
Do billy and jenny Do machine, portable Do do for hemp and flax Do do called the family spinner Do cotton	Ebenezer Smith Burgess Allison John F. Chappins John Brown L. Bissell, L. C. Hin- man & S. Willson Sylvanus Baldwin W. Ayres & J. Cochran Peter Paddleford Zaccheus Wheeler Jac. Sprinkel Jac. Richardson Caleb Shillideay and Geo. McCaslon	New York Paris, N. Y. Burlington, N. J. New York Providence, R. I. Orsego, N. Y. Boston, Mass. Durham, Vt. Lyman, N. H. Richmond, N. H. Wythe, Va. Scipio, N. Y.	Nov. 4, 1813 Mar. 23, 1814 June 28, 1814 Nov. 8, 1814 Feb. 24, 1814
Do machine, called the linen spinner Do do family wool Do do for wool and cotton Do do Do do Do do Do do Do and reeling machine	do do do do do do do	Pelleg Arnold Paul Moody William Bald, jr. Paul Moody John Brown Wm. Brushnell and J. Altoffer John Sharp	Aug. 18, 1815 Oct. 6, 1815 May 18, 1816 July 18, 1816 Aug. 23, 1816 Oct. 16, 1816
Do cotton yarn Do machine or frame for cotton Do do Do frame for cotton Do machine, called the vertical spinner Do do for wool, &c. Do do yarn	Peleg Arnold Paul Moody William Bald, jr. Paul Moody John Brown Wm. Brushnell and J. Altoffer John Sharp	Shelbyville, Ky. Coventry, Ct. Boston, Mass. Providence, R. I. Boston, Mass. Providence, R. I. Harrisburg, Va. Whitestown, N. Y.	Oct. 24, 1816 Aug. 1, 1818 May 6, 1819 Oct. 10, 1820 Feb. 19, 1821 Aug. 11, 1821

Do	do	for cotton.	Elisha Fuller	Athleborough, Mass.	Feb. 6, 1823
Do	do	do	William Bryant	Mill Creek, Tenn.	Sept. 30, 1823
Do	wool by continued rotary motion	machine, and receiving rolls of wool	Gilbert Brewster	Norwich, Ct.	Mar. 13, 1824
Do	do	do	Do	Do	Mar. 13, 1824
Do	for cotton	called the horizontal spinner	William Haworth	Providence town p, Pa	June 2, 1824
Do	do	substitute for the flyer in the domestic	C. Merrill, C. Batchellor, & S. King, Jr.	Lowville, N. Y.	July 3, 1824
Dq	do	for wool and cotton	O. G. & M. Rogers	Whitestown, N. Y.	Aug. 28, 1824
Do	do	do	Elias Wood	Lowville, N. Y.	Sept. 3, 1824
Do	do	domestic	Francis Price	New York	Oct. 5, 1824
Do	do	do	Lafferd Totten	Schoharie, N. Y.	Nov. 13, 1824
Do	do	called the family spinner	D. Pool and A. Copeland	Philadelphia, Pa.	Dec. 24, 1824
Do	do	horizontal spinner	H. Hunt & C. Bradish	Lowville, N. Y.	Dec. 24, 1824
Do	do	for wool	John Griggs, Jr.	Ashford, Ct.	Dec. 30, 1824
Do	do	do	Sidney White	Wrentham, Mass.	Dec. 31, 1824
Do	do	called the family spinner and bobbin winder	John Gill	Plumb township, N. Y.	Feb. 19, 1825
Do	do	called the vertical spinner	Samuel Slater	Middletown, Vt.	April 4, 1825
Do	do	family and factory	Richard Woolsey	Kortwright, N. Y.	May 13, 1825
Do	do	improvement on Brown's vertical spinner	J. R. & J. B. Wheeler	Kingsbury, N. Y.	May 26, 1825
Do	do	for wool and cotton	A. S. Wiltsie and Joel Farnham	Tioga, N. Y.	June 28, 1825
Do	do	horizontal	J. S. & B. J. Billings	Moreau, N. Y.	Jan. 16, 1826
Do	do	called the fancy spinner	J. R. & J. B. Wheeler	Galway, N. Y.	Mar. 3, 1826
Do	do	for wool and cotton by hand	Geo. W. Robinson	Providence, R. I.	Mar. 16, 1826
Do	do	or splicing cotton and woollen rolls	Gardner Barton, jr.	Shaftsbury, Vt.	April 22, 1826
Do	do	horizontal, improvement on Calvin Merrill's	D. Hunt & S. Wheeler	Knox, N. Y.	May 2, 1826
Do	do	family	J. Watt, F. A. Priest, and G. Freeman	Jefferson co., O.	May 20, 1826

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Spinning machine, for wool	J. Corrill and W. P. Rogers	Harpersfield, O.	June 15, 1826
Do do flax and hemp	W. Hunt and W. Hos- kins	Martinsburg, N. Y.	June 22, 1826
Do do cotton and wool	Joseph Hathaway	Pultney, N. Y.	July 24, 1826
Do do and reeling wool and cotton	Joseph Woodhull	Chester, N. Y.	Nov. 14, 1826
Do do domestic	Lafford Totten	Schoharie, N. Y.	Nov. 22, 1826
Do do wool and cotton	Seth Boyden	Foxborough, Mass.	Dec. 7, 1826
Do do do	Do	Do	Dec. 29, 1826
Do do do	Nathaniel Remington	Geneva, N. Y.	April 21, 1827
Do do do	William Church	Birmingham, Eng.	June 11, 1827
Do do do	Benjamin Lapham	Queensbury, N. Y.	June 29, 1827
Do do improvement on Brown's vertical spinner	Henry Wilson	Pomfret, N. Y.	July 13, 1827
Do do family	William Jones	Thornville, O.	July 27, 1827
Do do for cotton bagging	John C. Dewees,	Mason co., Ky.	Dec. 28, 1827
Do do for wool, flax, and hemp	Theodore T. Abbot	Greenland, N. H.	Feb. 26, 1828
Do do do and cotton	Arthur Critchfield	Union township, O.	April 24, 1828
Do do do from the roll	Wm. R. McCall	Vincennes, Ind.	May 12, 1828
Do do called the domestic spinner	Edward Penny	Adams, N. Y.	June 27, 1828
Do do for cotton and wool	John W. Wheeler	Galway, N. Y.	Oct. 11, 1828
Do do and twisting cotton	John Thorpe	Providence, R. I.	Nov. 20, 1828
Do do or filling, and slack twisted yarn	Do	Do	Nov. 25, 1828
Do do machine, called the ring groove spinner	Do	Do	Dec. 31, 1828
Do do for wool and cotton by hand	Nathaniel Harris	Fairfield co., O.	Jan. 21, 1829

called the cap spinner	John Thorp	Providence, R. I.	Jan. 23, 1829
Do improvement on Thorp's, (patented 25th November, 1828)	Do	Do	April 3, 1829
Do called the running cap spinner	Do	Do	June 13, 1829
do American spinner for silk, cotton, flax, &c.	Warren Allen	New Haven, N. Y.	Aug. 15, 1829
Do for wool	George Addison and S. H. Stevens	New York	Oct. 10, 1829
do called the golden spinner wheel	John Ordorff	Russellville, Ky.	Nov. 10, 1829
Do for cordage	Joseph B. Wheeler	Galway, N. Y.	Dec. 30, 1829
Do -	Amos Miner	Baltimore, Md.	Nov. 16, 1803
Do -	William B. Dyer	Poultny, Va.	Feb. 27, 1808
Do -	Tim. Cruttenden	Brookfield, Mass.	April 6, 1808
Do -	Ob. Seely	Herkimer, N. Y.	Aug. 6, 1808
Do -	William Drury	Aurelius, N. Y.	Mar. 19, 1810
Do -	James Shaw	Orleus Roberts	April 27, 1812
Do -	Daniel Hurlbut	Bristol, Ct.	Aug. 4, 1813
Do -	Harvey Wright and Emory Russell	Long Meadow, Mass.	Mar. 26, 1814
Do -	Elias B. Stanford	Newtown, Ct.	April 18, 1814
Do -	James Wright	Campbell co., Ky.	April 11, 1816
Do -	Nathan Lewis	Canandaigua, N. Y.	Feb. 28, 1817
Do -	Tim. Cruttenden	New York	Mar. 29, 1817
Do -	Zalmon T. Bradley	Gr. Barrington, Mass.	May 12, 1817
Do -	John Browne	Providence, R. I.	April 21, 1818
Do -	Henry Wilson	Mendon, N. Y.	June 12, 1818
Do -	Benjamin Simmons	Paris, N. Y.	Dec. 29, 1818
Do -	Gilbert Brewster	Norwich, Ct.	July 20, 1820
Do -	Charles F. Schaffé	Lewisburg, Pa.	Feb. 27, 1824
Do -	Guy Brookes	Athol, N. Y.	Feb. 28, 1824
Do -	Elihu Robinson	Augusta, Mass.	April 2, 1824
Do -	Spool frame		Mar. 6, 1816

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Spoons, manufacturing	Thomas Bruff	Maryland	Sept. 14, 1801
Do do	Isaiah Bisbee	Bath, Mass.	Nov. 20, 1809
Do do	Jac. Perkins	Newburyport, Mass.	June 29, 1813
Do do	James Ridgway	Groton, Mass.	Sept. 22, 1814
Do do	William Gale	New York	Dec. 7, 1826
Stamping engravings on horn and tortoise shell	Joseph H. Derby	Worcester, Mass.	April 30, 1816
Steel, tempering	David Hartley	Westminster, Eng.	Feb. 24, 1792
Do for cutting glass	Benjamin Duvall	Virginia	Feb. 14, 1799
Do welding to iron	D.Pettibone, Ez.Chapman, & J. Nichols	Albany, N.Y. Roxbury, Ct.	Dec. 22, 1802 Mar. 22, 1806
Do do	Daniel Pettibone		
Do or bar iron, mode of welding by pit coal without the use of charcoal	Benjamin King	Washington, D.C.	Nov. 15, 1811
Do manufacturing from pig iron	Enoch Leonard	Canton, Mass.	Jan. 6, 1812
Do card teeth, elastic, making and using, and converting iron into steel fish hooks	Eb. Jenks	Colebrook, Ct.	Nov. 13, 1813
Do converting iron partially into cast, welding to iron	Do	Do	Jan. 28, 1818
Do making cast or wrought	Daniel Pettibone	Boston, Mass.	Aug. 21, 1819
Do or iron	Horatio G. Spafford	Albany, N.Y.	Oct. 30, 1822
Do cast, scrap and bar iron converted into	Do	Do	Oct. 30, 1822
Do converting iron into	Samuel Collins	Troy, N.Y.	April 10, 1823
Do carbonated from wrought iron	Eleazer L. Losey	New Brunswick, N.J.	Nov. 20, 1823
Stockings, machine for knitting	Stephen Pope	New York	Nov. 20, 1829
	Aaron Porter, James		

Mead, and James Stedwell	Queensbury, N.Y.	July 31, 1815
Augustus Phelps	Marlborough, Ct.	Oct. 10, 1829
Eleazer Smith	Franklin, Mass.	Mar. 30, 1808
Mary Kies	Killingly, Ct.	May 5, 1809
William Pond	Wrentham, Mass.	Feb. 28, 1811
Daniel Atherton	Providence, R.I.	April 26, 1811
Simon Pettee	Foxborough, Mass.	Sept. 14, 1825
Henrietta Cooper	Washington twsh., Pa.	Nov. 12, 1828
Orange Webb	New York	Sept. 18, 1804
Simon Smith	New Haven, Ct.	Oct. 23, 1804
Richard Howell	Philadelphia, Pa.	Mar. 5, 1806
Jones Dawson	New York	Nov. 6, 1806
Orange Webb	Philadelphia, Pa.	Oct. 14, 1807
James Davis	Bucks co., Pa.	May 15, 1810
Henry Burke	Danbury, Ohio	May 25, 1811
Benjamin Wolcott	Philadelphia, Pa.	May 29, 1811
Martin Nelson	Do	Oct. 17, 1814
Joseph Barnett	Utica, N.Y.	Sept. 14, 1816
Benjamin Wildes	Philadelphia, Pa.	Aug. 19, 1826
Abm. L. Vanhorn	New York	Feb. 22, 1827
Edwin Chesterman	Hanover, Mass.	June 19, 1827
Jesse Reed	Hartford, Ct.	March 1, 1813
Alfred Janes	Westmoreland, N.Y.	Mar. 29, 1817
James Olney	Lynu, Ct.	May 16, 1817
Josiah Beckwith	Poultney, Vt.	Nov. 25, 1818
Aaron Foster	Whitestown, N.Y.	Aug. 24, 1821
Do	Beaver Creek, Ohio	Nov. 24, 1814
Benjamin Rogers	Townsend, Mass.	Feb. 23, 1816
Daniel A. Smith	Providence, R.I.	May 28, 1818
John Waterman		
Stock, composition bit		
Straw plates and bonnets, machine for cleaning		
'Do weaving with silk or thread		
'Do wove plait		
'Do plait, trimming and dressing		
'Do bonnets, pressing		
'Do whitening, Léghorn and gimp		
Suspenders, manufacturing		
'Do do		
'Do do		
'Do straps		
Do manufacturing		
'Do do	double spring	
'Do do		
'Do do		
'Do do		
'Tacks, machine for making		
Tassels and cords for boots, &c.		
Teaselng cloth		
'Do and napping		
'Do do		
Temples for looms		
'Do weavers' perpetual sliding		

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Temples for cloth looms	John Bazin, jun.	Canton, Mass.	August 8, 1823
Do do	Philo C. Curtis	Paris, N. Y.	June 16, 1825
Do for weaving	Orsemas M. Stillman	Brookfield, N. Y.	Jan. 30, 1826
Do spring	A. Jenk & J. Clewell	Holmesburg, Pa.	Mar. 19, 1827
Do rotary	Ira Draper	Saugus, Mass.	April 1, 1829
Thimbles, manufacturing	Asa Spencer	New London, Ct.	June 8, 1804
Do do	Isaiah Jennings	New York	Nov. 20, 1807
Do do	Stephen Chandler	Do	Feb. 4, 1811
Do do	Do	Do	Sept. 20, 1816
Thread, packing	Reuben Langdon	Harford, Ct.	June 20, 1821
Do of wool, manufacturing	William Bell	Fayette co., Ky.	June 1, 1825
Throstle for spinning wool, &c.	Stephen Shalcross	New York	Jan. 21, 1814
Do spindle	Chs. Lewis & C. Taylor	Poughkeepsie, N. Y.	June 26, 1822
Do cotton spinner	Benjamin Brundred	Mamaroneck, N. Y.	Jan. 17, 1824
Do spindle	Gilbert Brewster	Norwich, Ct.	Mar. 13, 1824
Do bobbin or spool	Thomas Van Riper	Patterson, N. J.	Aug. 16, 1826
Do frame	Samuel Blydenburg	New York	Nov. 10, 1829
Timber, bending	Henry Ruggles	Do	Nov. 24, 1829
Tin, mode of opening sheet	E. Green & M. Blakesee	Litchfield, Ct.	Mar. 20, 1822
	Calvin Whiting and Eli Parsons	Massachusetts	April 14, 1804
	Barnabas Langdon	St. Alban's, Vt.	May 10, 1805
	David Noble	Philadelphia, Pa.	May 9, 1814
	Aaron Burk	New York	Feb. 11, 1815
	Seth Peck	Southington, Ct.	April 23, 1819

Do ware, &c.		Claremont, N. H.	Nov. 12, 1829
Tobacco, manufacturing			
Do do		Albany, N. Y.	Jan. 26, 1793
Do spool for spinning		New York	April 25, 1810
Do manufacturing		Kennebec, Me.	Dec. 30, 1820
Do spinning and turning of wheel		Richmond, Va.	April 3, 1827
Tongs, fire irons, &c.		Newark, N. J.	April 8, 1812
Tongs, cast iron		New York	June 8, 1821
Tools, making edge		Marlborough, Ct.	March 6, 1828
Tread wheel		Troy, N. Y.	Dec. 19, 1822
Tubes of clay, machine for making		Addison townsh., O.	Dec. 22, 1827
Turning lathe		Fredericktown, Pa.	May 10, 1827
Turning tenons for rake teeth		Leverett, Mass.	April 24, 1827
Do rake and hoe handles		Berkshire, Mass.	Mar. 5, 1827
Do do do		Hamilton, N. Y.	Dec. 3, 1827
Twine, tarring and spooling		Camden, N. Y.	
Do laying and twisting seine		Rotterdam, N. Y.	
Do cotton, manufacturing		Boston, Mass.	Dec. 26, 1827
Twisting, reeling, and doubling machine		Baltimore, Md.	April 3, 1819
Do machine, self-supplying		Petersburg, Va.	Aug. 16, 1826
Types, casting		New York	April 21, 1829
Do moulds, printers'		Do	Aug. 30, 1813
Do smoothing or rubbing printers'		Hartford, Ct.	June 11, 1829
Do mould for casting		Philadelphia, Pa.	Aug. 28, 1805
Do casting moveable		Do	Jan. 29, 1811
		Do	Feb. 4, 1811
		Do	May 17, 1814
		New York	Feb. 28, 1816
		George Webster	

LIST OF PATENTS—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Types, moulds Do casting machine, called the mechanical type caster	George B. Lothian John Sturdevant and E. Starr	New York	Dec. 18, 1816
Do do printers'	Wm. M. Johnson	Boston, Mass.	Oct. 23, 1827
Do do	George F. Peterson	New York	Aug. 21, 1828
Tyre, bending	Joseph Meredith	Do	Oct. 13, 1828
Do do	Charles Cooper and Abm. Tustin	Lebanon, Pa.	Sept. 9, 1825
Do do	Walter Janes	Do	Sept. 28, 1825
Do do	Do	Ashford, Ct.	June 19, 1826
Do do	Josiah Butler	Cobleskill, N. Y.	July 14, 1827
Umbrella, manufacturing	William Gamble	Washington, D. C.	Sept. 24, 1829
Do and parasol manufacturing	William Sleeper	Philadelphia, Pa.	July 3, 1824
Vice used in cutting combs	Philo Pratt	Meriden, Ct.	Nov. 22, 1826
Do for slitting ivory	Do	Do	Nov. 22, 1825
Do socket	Luther Hemenway	Franklin, H. H.	Feb. 12, 1828
Wadding, manufacturing cotton	James Beaumont	Kendall, Mass.	Sept. 4, 1828
Warping machine	Thomas Siddall	Germantown, Pa.	Dec. 3, 1814
Do and dressing cotton goods	James Morgan	Baltimore, Md.	Mar. 27, 1815
Weaving and beating sail duck	James Davenport	New Jersey	April 5, 1821
Do lathe	William Harris	Massachusetts	Feb. 14, 1794
Do machine	Walter Janes	Ashford, Ct.	Mar. 15, 1800
Do do	Nathaniel Miller and Philip W. Miller	Franklin, Mass.	Feb. 16, 1810
Do do	Job Rood	Canterbury, Ct.	Aug. 20, 1811
			Jan. 23, 1812

Do	feather cloth		Oct. 21, 1812
Do	spooling and winding machine		Feb. 28, 1815
Do	machine		June 7, 1816
Do	do		April 7, 1818
Do	do		April 11, 1818
Do	do		
Do	harness		Dec. 31, 1819
Do	harness		
18	Wheel heads for spinning wheels		
Do	do		Jan. 26, 1821
Do	do		April 11, 1810
Do	do		Dec. 14, 1812
Do	do		Mar. 18, 1813
Do	do		April 18, 1814
Do	linen		
Do	do		
Do	do		
Do	do		
Do	linen		
Do	accelerating		
Do	Wheel regulator and spare gear		
Do	Wheel and rest		
Do	Wheel and racket		
Do	Wheelwrights' labor-saving machine		
Do	Whips, twisted whalebone		
Do	Wicks, cotton yarn		
Do	Winding the thread and quilts of the shuttle for weaving		
Do	spools and bobbins for weaving		
Do	do		
Do	do		
Do	yarn from bobbins		
Do	spooling and bobbin machine		
	Wright		June 29, 1816
Jona, & Rozanna Sizer	New London, Ct.		
Eb. Stowell	Middleburg, Vt.		
Ira Draper	Weston, Mass.		
Stephen Armstrong	Poughkeepsie, N. Y.		
David Grieve	Providence, R. I.		
Jer. H. Pierson and J. H. Simmons	Hampstead, N. Y.		
M. Chandler and E. Brown	Cazenovia, N. Y.		
Amos Miner	Marcellus, N. Y.		
William H. Peabody	Woodbury, Ct.		
Eli Church	Homer, N. Y.		
Emery Russell	Long Meadow, Mass.		
Brown Smith & Chs. Stewart	Truxton, N. Y.		
David Lee	Guildford, Ct.		
Isaac Mudge and Milo Hatch	Sherburne, N. Y.		
Jared S. Stewart	Springfield, N. Y.		
Diana H. Tuttle	Williamson, N. Y.		
John L. Sullivan	Boston, Mass.		
Israel Johnson, Jr.	Moriah, N. Y.		
Mareus B. Parmelee	Newtown, Ct.		
Mellen Battle	New York		
Joseph Reeve	Newburgh, N. Y.		
George Dickinson	New York		
Levi Ruggles	Boston, Mass.		
Walter Janes	Ashford, Ct.		
Augustus C. Sherwood			
Paul Moody	Boston, Mass.		
Calvin Flag and Obed			
Wright	Hudson, N. Y.		

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Winding machine called the socket bobbin winder	John Thorp and Silas Shepard	Taunton, Mass.	Oct. 14, 1816
Wire weaving	Timothy Kirk and Job Leslie	York, Pa.	May 9, 1792
Do winding and spinning	Henry Burke	Philadelphia, Pa.	June 18, 1810
Do drawing machine	William Wadsworth	Hartford, Ct.	Oct. 6, 1812
Do do	Jno. T. & Ths. Walden	New York	Oct. 31, 1812
Do do	John J. Staples	Flushing, N. Y.	May 10, 1813
Do do	Russel Pronty	Spencer, Mass.	Jan. 19, 1822
Do harness	Elisha Attilis	Cazenovia, N. Y.	Dec. 30, 1824
Do do	Ezra Brown	Do	April 12, 1826
Do do	Do	Do	Oct. 30, 1828
Do rolling	James Howell	Philadelphia, Pa.	Jan. 11, 1812
Do cutting machine	Abiel Stephens	Andover, Mass.	Nov. 11, 1828
Do fences and nets	Chauncey Hall	Meriden, Ct.	Nov. 27, 1829
Wool carding machine	Benjamin Standring	New Hampshire	June 28, 1803
Do preparing for worsted by applying heat	Joseph Banford	Philadelphia, Pa.	Mar. 18, 1813
Do manufacturing	John Goulding	Dedham, Mass.	Dec. 15, 1826
Do do	Do	Do	April 27, 1827
Do do	Do	Do	Feb. 16, 1829
Do do	do	Do	Feb. 16, 1829
Do do	do	Do	June 11, 1829
Do do	do	Do	July 21, 1829
Do do	do	Do	July 10, 1827

Wringing dyes, &c. out of cloths, a machine called the spiral curvilinear compressor	William Nelson	Batavia, N. Y.	Nov. 13, 1828
Yarn, preparing for weaving	W. W. & W.	Providence, R. I.	Aug. 8, 1817
Do drawing and forming into readies	E. Winsor	Boston, Mass.	Nov. 22, 1820
Do machine for equalizing the strain upon	Robert Graves	Do	Nov. 22, 1820
Do making cotton without the aid of twist	Do	Newport, N. Y.	Dec. 11, 1821
Do rolls, forming on the shuttle bobbin	Erastus Walcott	Providence, R. I.	Mar. 20, 1829
	John Thorp		

LIST OF PATENTEES—FACTORY MACHINERY.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Austin, Cyrus	New Jersey	Improvement in the manufacturing of paper	Dec. 14, 1798
Abbett, Henry	Pennsylvania	Machine for rolling iron	May 4, 1802
Allison, Burgiss, and John Hawkins	New Jersey	Making paper from corn husks	May 30, 1802
Allen, Amos D.	Windham, Ct.	The chip hat machine	May 10, 1804
Allison, Burgiss, and Richard French	New Jersey	Nail and spike machine	June 8, 1804
Allen, Amos D., and Ashael Kelsey	Windham, Ct.	Machine for cutting chips for bonnets and hats	Sep. 5, 1804
Albricks, Jacob	Wilmington, Del.	Delaware spinner	Oct. 10, 1809
Ames, Oliver	Plymouth, Mass.	Trip hammer	April 25, 1810
Alger, Cyrus	Boston, Mass.	Casting rollers for rolling iron	Mar. 30, 1811
Atherton, Daniel	Providence, R. I.	Straw plait, trimming and dressing	April 26, 1811
Anderson, David, and Levi	Philadelphia	Machine for manufacturing files	April 20, 1812

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Allison, Burgess	Philadelphia, Pa.	Portable spinning machine	April 27, 1812
Allison, Burgess	Burlington, N. J.	Perpetual wool spinner	Mar. 3, 1813
Alger, Cyrus	Boston, Mass.	Casting iron hinges	May 18, 1814
Allison, Burgess	Burlington, N. J.	Portable spinning machine	June 28, 1814
Antrim, Pindar	Philadelphia, Pa.	Preparing flax and hemp for spinning	Nov. 25, 1814
Allen, Simeon	-	Cutting horn or tortoise shell for combs	April 1, 1815
Ayres, William, and James Cochran	Durham, Vt.	Family wool spinner	Oct. 6, 1815
Andrews, John	Dinwiddie co., Va.	Screw for cutting wood and metal	Aug. 11, 1817
Armstrong, Stephen	Poughkeepsie, N. Y.	Weaving	April 7, 1818
Arnold, Peleg	Coventry, Ct.	Spinning cotton yarn	Aug. 1, 1818
Aborn, John	Burlington co., N. J.	Machine for dipping candles	Mar. 20, 1821
Ames, John	Springfield, Mass.	Paper making	May 14, 1822
Arnold, Aza	North Providence R.I.	Roving cotton	Jan. 21, 1823
Averill, John R.	Manchester, N. Y.	The cylindrical stave dresser	Dec. 29, 1824
Attis, Elisha	Cazenovia, N. Y.	Wire harness	Dec. 30, 1824
Allen, Timothy	Plymouth, Mass.	The slitting mill machinery	Feb. 5, 1826
Arnold, James H.	Bellemont, O.	Carding wool machine	Sept. 25, 1826
Avery, William	Cazenovia, N. Y.	Saw, circular, reacting	Dec. 8, 1826
Allen, John P.	Manchester, Mass.	Sawing veneers	Dec. 8, 1826
Ames, Oliver	Easton, Mass.	Shovels, making	Mar. 5, 1827
Allen, John, Jr., and O. Geoghegan,	Richmond, Va.	Tobacco, manufacturing	April 3, 1827
Ainsden, Amery	Bloomfield, N. Y.	Stave for the truss hoop, making ready	July 27, 1827

Adams, Wm. & Marcus Abbot, Theodore T.	Ogden, N. Y.	Casks, barrels, hogheads, &c., machine for manufacturing Wool, flax, and hemp, spinning	Jan. 24, 1828 Feb. 26, 1828
Alley, John, sen.	Greenland, N. H.	Axes, making	April 9, 1829
Atwood, Charles	Pise, Indiana	Doffer, circulating and transverse, Atwood's	April 18, 1829
Angels, Charles	Middletown, Ct.	Machine for punching straps	July 15, 1829
Arnold, John	Philadelphia	Cloth, forming the web without spinning or weaving	July 15, 1829
Allen, Zachariah	Norwalk, Ct.	Cloth, raising nap on woollen	Aug. 10, 1829
Allen, Warren	Providence, R. I.	Spinner, American	Aug. 15, 1829
Addison, George, and L. H. Stevens	New York	Silk, cotton, flax, &c., spinning Punches for type, &c.	Oct. 10, 1829 Jan. 29, 1791
Baily, Francis	Philadelphia, Pa.	Nail machine	Aug. 2, 1791
Briggs, Saml., sr. & jr.	Philadelphia, Pa.	Paper making	Mar. 31, 1794
Biddis, John	Pennsylvania	Nails	Jan. 15, 1796
Byington, Jared	Connecticut	Books and paper, ruling Manufacturing nails	Nov. 16, 1796 Nov. 19, 1796
Brunnell, Mark J.	Connecticut	Heading nails	Dec. 23, 1796
Bigelow, John	Do	Raising nap on cloth	June 23, 1797
Byington, Jared	Connecticut	Dipping candles	Mar. 22, 1798
Burt, William	Pennsylvania	Improvement in the machine for reducing fabrics	May 6, 1800
Blydenburg, Samuel	Maryland	Spoons, manufacturing	Sept. 14, 1801
Biddis, John	Pennsylvania	Nail manufacturing	Feb. 17, 1803
Bruff, Thomas	Maryland	Ruling machine	April 22, 1803
Bartlett, Oliver, Otis Bartlett, and George Bartlett	Pennsylvania	Nail cutter	Aug. 21, 1803
Brewer, Daniel	Rochester, Mass.	Loom for weaving chips	Feb. 8, 1806
Boureau, Nicholas	Warren, R. I.	Machine for winding cotton	Feb. 5, 1807
Bennet, Philip	Baltimore, Md.	Carding machine for fur and wool hats	Feb. 21, 1807
Brown, David, jr.	Princeton, N. J.	Nail cutting machine	April 1, 1807
Buffum, Arnold		Shearing cloth	June 23, 1807
Bigelow, Elisha			
Burt, Enoch			

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Butland, James Bailey, John, jr. Barber, Samuel, and Nehemiah W. Tom- kins	Philadelphia Plymouth, Mass.	Manufacturing iron Friction roller, door hinge	Nov. 12, 1807 May 16, 1808
Bruff, Thomas Badger, Willard Brown, George Bissel, Luther Barrett, William Bernard, Phares Bailey, Francis Bisbee, Isaiah Battle, Mellen Burke, Henry Brunell, Mark J. Brawn, Daniel Barber, Samuel, and Nehemiah W. Tom- kins	New York Washington, D. C. Boston, Mass. Scaghticoke, N. Y. Hartwick, N. Y. Whitestown, N. Y. Salisbury, Pa. Bath, Mass. New York Philadelphia Pennsylvania New York Bucks co., Pa. Philadelphia Wilkesbarre, Pa. Georgetown, Ca.	Saw, whip, application of the Pressing shot Pipes or tubes, casting Machine for roving flax and hemp Nail cutting machine Machine for dying silk Moulds for paper Hot pressing paper Manufacturing spoons Wheelwright's labor saving machine Winding or spinning wire Books and paper ruling Ruling machine	June 1, 1808 Oct. 5, 1808 Dec. 26, 1808 June 16, 1809 June 27, 1809 June 27, 1809 July 7, 1809 July 31, 1809 Nov. 20, 1809 April 2, 1810 June 18, 1810 Nov. 16, 1796 April 22, 1803
Burke, Henry Bowhay, William Beatty, Leon'd Bogenrief, Val.		Saw, whip, application Suspenders, &c. Dowelling and coguing instrument Calicoes and paper printing Boring blocks for cartridge boxes, brushes, &c.	June 1, 1808 May 25, 1811 Oct. 14, 1816 Dec. 28, 1810 July 10, 1810

Blydenburgh, Samuel -	West Brookfield, Mass.	Weaving machine	Sept. 12, 1810
Burney, Archibald -	Philadelphia, Pa.	Printers' type mould	Jan. 29, 1811
Do -	Do	Smoothing or rubbing printers' types	Feb. 4, 1811
Boynton, John -	Windham co., Ct.	Machine for straining and grinding cards	Mar. 30, 1811
Barnard, Joseph -	Troy, N. Y.	Vibrating machine for cutting nail plates	April 16, 1811
Baxter, John G. -	Philadelphia, Pa.	Family spinning cotton machine	June 22, 1811
Bergh, Christian, & Peter Schermerhorn, jr.	New York	Rope yarn, spinning and winding	July 2, 1811
Beal, Josiah -	Ontario co., N. Y.	Trip hammer	Oct. 5, 1811
Barrett, Oliver, Jr. -	Scaighticoke, N. Y.	Machine for roving wool and cotton	Dec. 3, 1811
Belknap, Morris B. -	Greenfield, Mass.	Machine for cutting files	Jan. 16, 1812
Brewster, Gilbert, G. Trumbull, and Jas. Mathes -	Barre, Vt.	Spinning cotton, wool, flax, &c.	Jan. 16, 1812
Baldwin, Sylvanus, & Elisha Town -	Vermont	Spinning machine, called the linen spinner	May 6, 1812
Bailey, Robert -	Washington, D. C.	Machine for dealing cards	May 15, 1812
Belknap, Morris B. -	Worcester, Mass.	Do for cutting files	June 13, 1812
Brown, John -	Providence, R. I.	Roping and spinning cotton and wool	Aug. 8, 1812
Bostwick, Gershon -	Brookfield, Ct.	Machine for shearing cloth	Sept. 28, 1812
Booth, George -	Poughkeepsie, N. Y.	Do do	Oct. 13, 1812
Barrett, Oliver, Jr. -	Troy, N. Y.	Felting cloth	Dec. 8, 1812
Byington, Jared -	Hinesborough, Vt.	Pitchforks	Jan. 12, 1813
Barnes, Allen, Samuel Gray, & Jabez Clark -	Windham, Ct.	Making blankets and cloth from sheep's wool	Feb. 2, 1813
Banford, Joseph -	Philadelphia, Pa.	Preparing wool for worsted by applying heat to machinery	Mar. 18, 1813
Blanchard, Thomas -	Sutton, Mass.	Horizontal shearing machine	May 4, 1813
Brown, John -	Providence, R. I.	Farmers' wool spinner	May 12, 1813
Briggs, Shepard -	Canaan, Ct.	Loom	May 27, 1813

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Bruff, Thomas Bissell, Luther, Justice Hinman, Luke C. Hinman, and Benoni Gaines	Washington, D. C.	Shot and bullets by pressure	June 4, 1813
Broad, Joseph Baker, Daniel Briggs, Nathaniel Burnham, Abner, and Thos. S. Barnum Briggs, Daniel	Hartwick, N. Y. Salisbury, Ct. Trenton, N. J. New York	Machine for spinning cotton Twisted screw gimlet Spring bolt for window sashes	June 19, 1813 June 25, 1813 Aug. 19, 1813 Oct. 13, 1813
Broad, Joseph Brown, Brightberry Belknap, Stephen Binney, Archibald Broad, Aaron Do	Sharon, Ct. Canaan, Ct. Springfield, Mass. Albemarle, Va. Washington, D. C. Philadelphia, Pa. Litchfield, Ct. Do	Machine for making screws Loom Raspings and grinding dyewood Water loom Cutting nails, brads, spikes, of all sizes Moulds for casting types Buff polishing wheel Manufacturing screws, ramrods, knives and forks	Dec. 31, 1813 Feb. 19, 1814 Mar. 1, 1814 Mar. 21, 1814 April 8, 1814 May 17, 1814
Bazier, John, jr. Bronson, Salmon Beaumont, James Burke, Aaron Blydenburg, Samuel, & Hez. Healy Brown, John	Canton, Mass. Kent, Ct. Kendall, Mass. New York	Loom for stockings Loom Cotton wadding, manufacturing Tin plate, manufacturing	June 6, 1814 June 6, 1814 Oct. 28, 1814 Nov. 25, 1814 Dec. 3, 1814 Feb. 11, 1815
Worcester, Mass. Providence, R. I.	Providence, R. I.	Loom, water, steam, and other power Family spinner	Feb. 20, 1815 Feb. 24, 1815

Bakewell, Thomas Barnum, T. S., and E. Smith	Pittsburg, Pa.	Glass, manufactured	March 3, 1815
Litchfield, Ct.	Cloth, machine for napping	April 4, 1815	
Otsego, N. Y.	Auger	May 16, 1815	
Boston, Mass.	Brad, machine for cutting	June 27, 1815	
Do	Machine for cutting brads	June 27, 1815	
Bissel, Luther, Luke C. Hinman, & Spe- bran Wilson	Spinning cotton	July 17, 1815	
Barker, William	Card for cotton	Aug. 12, 1815	
Bartholomew, Erastus, and Wm. Church	Manufacturing nails	Aug. 18, 1815	
Baldwin, Sylvanus	Spinning machine, called the linen spinner	Aug. 18, 1815	
Bryant, Jehiel, & John Bryant	Hats, manufacturing	Aug. 26, 1815	
Bryant, William	Machine for roving cotton	April 29, 1816	
Beard, David	Machine for cutting fur	April 30, 1816	
Do	Hats, blocking	May 28, 1816	
Barnett, Joseph	Suspenders	Sept. 14, 1816	
Bigelow, Elisha	Heading nails	Jan. 29, 1817	
Beckurth, Josiah	Teaseling cloth	May 16, 1817	
Bazen, Stephen, & Jo- seph A.	Cordage, manufacturing	Oct. 17, 1817	
Bryant, Ebenezer	Die, founders' moulding	Mar. 18, 1818	
Bradley, Solomon T.	Wheel, spinning	April 21, 1818	
Browne, John	Do do	June 12, 1818	
Bryant, John I.	Napping, shearing, and brushing cloth	Sept. 2, 1818	
Barron, James	Corks for bottles	Jan. 12, 1819	
Brown, John	Shovel, sheet iron, for barns	Feb. 19, 1819	
Brown, John	Roping and spinning wool and cotton	July 22, 1819	
Blanchard, Thomas	Machine for turning gun stocks	Sept. 6, 1819	

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Blanchard, Thos. Buffum, A., & J. Kelly Bryan, John, and S. D. Fuller	Middlebury, Mass. Westfield, R. I.	Stocks, gun, turning Hats, elastic water proof	Jan. 20, 1820 Feb. 17, 1820
Bald, Wm., Jr. Burtis, William Burr, James Barstow, Charles Brown, John Bryan, Thos. & W. Brown, John Bushwell, Wm., & J. Altoffer	Providence, R. I. New York Johnstown, N. Y. Exeter, N. H. Providence, R. I. New York Providence, R. I.	Cloth machine, napping and brushing Spinning cotton machine Pans, baking or burning Machine for finishing leather Rods, ram Wool and cotton, roping and spinning by hand Silks, staining and printing of Spinner, vertical, the	April 4, 1820 Oct. 10, 1820 Nov. 7, 1820 Nov. 24, 1820 Nov. 21, 1820 Jan. 23, 1821 June 29, 1821 Aug. 11, 1821
Baker, Luke Brooks, Samuel Barnitt, Thomas Butters, Joshua Bent, William Ball, Daniel Brown, Beriah Bolles, Lemuel Beach, Joseph Burnap, Lucy Benson, Matthew Brasier, John, Jr.	Harrisburg, Va. Putney, Vt. New York Philadelphia, Pa. Boston, Mass. Philadelphia, Pa. Ballstown, N. Y. Exeter, R. I. New York Middletown, Ct. Merrimac, N. H. Cincinnati, Ohio Capton, Mass.	Wool, spinning, &c. Axe, pick Hair, separating from skins Tar, pressing out of yarn for cordage Leather, splitting Skins, splitting Gridirons Picker, wool Nails, manufacturing Saw setting machine Hats, weaving grass for Fire fender Looms, cloth for temples	Aug. 30, 1821 Jan. 15, 1822 April 4, 1822 May 20, 1822 May 31, 1822 June 17, 1822 Aug. 29, 1822 Sept. 2, 1822 Sept. 19, 1822 Oct. 28, 1822 Feb. 16, 1823 May 19, 1823 Aug. 8, 1823

Brown, John -	Boston, Mass.	Saws, circular	Aug. 13, 1823
Bonnell, Sylvanus	Chatham, Mass.	Do do	Sept. 26, 1823
Bryant, William	Mill Creek, Tenn.	Spinning cotton	Sept. 30, 1823
Brundred, Benj.	Mamaroneck, N. Y.	Spinner, colton throstle	Jan. 17, 1824
Brewster, Gilbert	Norwich, Ct.	Wheel for wool spinning	Feb. 27, 1824
Do	Do	Throstle spindle	Mar. 13, 1824
Do	Do	Machine for receiving rolls of wool	Mar. 13, 1824
Do	Do	Spinning wool by continued rotary wheel	Mar. 13, 1824
Bergrand, Ivers	New York	Bolts, copper, for ship building	Mar. 15, 1824
Brooks, Guy	Athol, N. Y.	Wheel for spinning wool	April 2, 1824
Brown, John -	Providence, R. I.	Razors, making	June 28, 1824
Burbank, Isaac	Worcester, Mass.	Manufacturing paper	Sept. 8, 1824
Bruce, John -	Springfield, Mass.	Barrels, scarfing and rolling the scarf of	Oct. 15, 1824
Batchelder, John	Lancaster, N. H.	Knife, machine for sharpening currier's	Nov. 9, 1824
Brown, Joel -	Springfield, Mass.	Machine for cutting comb teeth	Dec. 8, 1824
Blauvelt, Abram	New Brunswick, N. J.	Spiral spring for latch, bolt, and lock	Feb. 9, 1825
Bird, Geo.	Walpole, Mass.	Paper polishing	April 11, 1825
Burden, Hy. -	Troy, N. Y.	Nails, wrought	May 26, 1825
Burdick, Frances	Kortwright, N. Y.	Wool and cotton, roping and spinning	May 30, 1825
Bell, Wm.	Fayette co., Ky.	Machine for making thread of wool	June 1, 1825
Bulfum, Arnold	Troy, N. Y.	Hats, preparing fur for	Sept. 23, 1825
Bakewell, John P.	Pittsburg, Pa.	Gloss, furniture	Sept. 9, 1825
Batchelder, James	Lancaster, N. H.	Knife, currier's, for shaving leather	Nov. 3, 1825
Barnet, W. G.	Newark, N. J.	Lace, coach	Nov. 18, 1825
Bint, Morris	Warwick, N. Y.	Hats, apparatus for dying	Nov. 8, 1825
Billings, J. S. & B. J.	Moreau, N. Y.	Spinner for wool and cotton, horizontal	Jan. 16, 1826
Brookings, John M. -	Wiscasset, Me.	Mortar, moulding and pressing brick	Jan. 23, 1826
Brown, J., and G. W.	Providence, R. I.	Bolts, rack for door	Mar. 24, 1826
Robinson -	Kingston, Pa.	Slitting timber	Mar. 25, 1826
Barker, William			

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Brimhall, J., and J. Keyes, jr.	West Boylston, Mass.	Rollers, for heating and glazing calender	April 1, 1826
Burbank, Gardner	Worcester, Mass.	Paper, machinery for making	April 12, 1826
Browne, Ezra	Cazenovia, N. Y.	Wire harness for weaving, improvement in Chandler and Brown's	April 12, 1826
Baker, Horace	North Salem, N. Y.	Loom, carpet	April 14, 1826
Booth, E. & C.	Southbury, Ct.	Saw, for sawing fret work, verstile	April 22, 1826
Barton, Gardner, jr.	Shaftsbury, Vt.	Splicing cotton and woollen rolls	April 22, 1826
Bartholomew, Erastus	Boston, Mass.	Cordage, making	May 17, 1826
Do	Do	Cables, chain	May 17, 1826
Bergen, Cornelius	New York	Loom	June 14, 1826
Branch, Hardin	Do	Augers, mode of turning any number of	Aug. 7, 1826
Brook, Sam.	Do	Currier's knife, machine for constructing and grinding	
Boyden, Seth	Foxborough, Mass.	Cotton and wool spinning	
Do	Do	Wool, cotton, &c., spinning	
Borbridge, Thos., and	Ringston township Pa.	Revolving coal sifter	Dec. 7, 1826
Anson Martin	Colchester, Ct.	Hoes, by rolling cast steel	Dec. 29, 1826
Bulkeley, Chauncey	Boston, Mass.	Hats, machine for plankning	
Bacon, Robert			
Brown, John, & Geo.			
W. Robinson	Providence, R. I.	Locks	
Bailey, Uriah	West Newbury, Me.	Tortoise shell, &c., inlaying gold on	Feb. 20, 1827
Brewster, Gilbert	Poughkeepsie, N. Y.	Cotton, roving manufacturing	Feb. 22, 1827
Bailey, Jer.	Philadelphia, Pa.	Tubs, machine for cutting wood for sides of	Mar. 28, 1827
Brundred, Benj.	Oldham, N. J.	Spindle for spindle cotton, &c.	April 7, 1827
			July 14, 1827

Briggs, Elisha	Perry, N. Y.	Ware, hollow wooden	July 30, 1827
Baker, Horace	North Salem, N. Y.	Loom for weaving figured goods	Aug. 30, 1827
Boggs, John	Philadelphia,	Saw sett, spring	Oct. 4, 1827
Beach, C. C. K.	Portland, Me.	Cutter, cant, twist blade, for	Nov. 10, 1827
Bailey, Uriah	West Newbury, Mass.	Combs, making ornamental	Nov. 15, 1827
Bishop, Nat.	Danbury, Ct.	Combs, rolling the backs of, &c., Brazillian or horn	Nov. 17, 1827
Ballard, William	Boston, Mass.	Copper, machine for punching	Dec. 6, 1828
Bulkey, Elizabeth H.	Colchester, Ct.	Shovels and scythes, and spades, of cast steel and iron	Feb. 28, 1828
Buell, Enos H.	Marlboro', Ct.	Tongs, cast iron	March 6, 1828
Bailey, Uriah	West Newbury, Mass.	Horns for combs, mode of pressing	Feb. 2, 1828
Brady, Elijah	Mount Pleasant, N. Y.	Bellows, constructing	April 3, 1828
Brown, William	Frankfort, Pa.	Reel, for handling hides, Brown's	April 17, 1828
Jones	Thorville, O.	Rope reeding machine	May 5, 1828
Bakewell, Thos. B. & John P.	Pittsburg, Pa.	Glass knobs, improvement on Bakewell's	May 14, 1828
Burt, C., O. D. Boyd, and A. H. Boyd	Manchester, Ct.	Loom, check and plaid power	Aug. 19, 1828
Bump, Lewis B.	Wareham, Mass.	Saw, circular, cylindrical	Aug. 29, 1828
Bason, Dan. M.	Huntington, Pa.	Carding machine	Oct. 10, 1828
Beach, Moses Y.	Springfield, Mass.	Rags, machine for cutting	Oct. 10, 1828
Black, James A.	Columbia, S. C.	Hoes, weeding and other	Oct. 13, 1828
Brown, Ezra	Cazenovia, N. Y.	Harness, for weaving wire	Oct. 20, 1828
Bayrd, Abel	South Reading, Mass.	Leather, polishing morocco and other	Dec. 29, 1828
Butterworth, John	Philadelphia, Pa.	Drums, preparing grooves for mule	Dec. 30, 1828
Bassett, David	Derby, Ct.	Augers, screw	Mar. 18, 1829
Bartholomew, Truman	New York	Lock	April 3, 1829
Bergin, G. H.	Philadelphia, Pa.	Salt from lye, in glass manufacturing, use of	April 3, 1829
Babcock, Samuel	Middletown, Ct.	Spectacles, spiral spring	April 3, 1829
Boynton, John	South Coventry, Ct.	Wool, machine for carding	April 11, 1829
Bushnell, Nathaniel	Middletown, Ct.	Combs, wooden	April 14, 1829

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Brewster, Gilbert	Poughkeepsie, N. Y.	Speeder, for cotton roping, the eclipse	April 18, 1829
Byington, Aaron	Herkimer, N. Y.	Carpeting, felt	May 6, 1829
Brown, John	Providence, R. I.	Combs, manufacturing	June 11, 1829
Brittingham, A. P. & E.	New York	Files, renewing old	July 27, 1829
Britt, Samuel A.	Cazenovia, N. Y.	Shears, of a cloth shearing machine	Aug. 10, 1829
Barker, John, and L. Kinsley	Green co., N. Y.	Felt machine	Aug. 29, 1829
Butler, Josiah	Cobleskill, N. Y.	Tire, hoops, &c., bending	Sept. 24, 1829
Baldwin, Daniel	Ithaca, N. Y.	Hats, scalding and napping	Oct. 15, 1829
Blydenburg, Samuel	New York	Throstle for spinning cotton	Nov. 10, 1829
Caldwell, James, and Chris. Butterman	Albany, N. Y.	Tobacco, manufacturing	Jan. 26, 1793
Carnes, John, Jr.	Delaware	Mould, paper	April 11, 1793
Cox, Zach.	Georgia	Saw, circular	Mar. 14, 1794
Cliff, Peter	Massachusetts	Nails, manufacturing cut	Nov. 16, 1796
Chandler, George	Maryland	Nails, cutting and heading	Dec. 12, 1796
Condit, Joseph, Jr.	New Jersey	Paper, from currier's shavings, manufactured	Dec. 28, 1801
Caruthers, William	Virginia	Nails, manufacturing	Dec. 13, 1802
Corning, Ezra, Jr.	Connecticut	Hats, manufacturing	June 13, 1803
Cleveland, George	Hartford, Ct.	Hats, preparing fur for	Sept. 9, 1803
Cutting, Nat.	Washington, N. Y.	Rope yarn, spinning	July 14, 1806
Cutting, Nat.	Do	Cables, improving the quality of	Aug. 14, 1806
Coolidge, William	Boston, Mass.	Paper polishing machine	April 18, 1808
Cruttenden, Tim.	Poulney, Vt.	Wheel, spinning	April 23, 1808
Cohoon, Thomas	Cazenovia, N. Y.	Saw, cross cut, machine	April 11, 1808

Chandler, Asa, & Silas Shepherd -	Taunton, Mass.	Sept. 16, 1808
Couch, Stephen, and Asa Tonne	Boston, Mass.	Nov. 21, 1808
Cutter, Ephraim	Brattleboro, Vt.	Mar. 1, 1809
Coppinger, Joseph	Frederick, Geo.	Mar. 19, 1810
Cooper, Charles	Lebanon, Pa.	Nov. 4, 1808
Cutter, Ephraim	Walpole, N. H.	Feb. 12, 1810
Clark, Martin	New York	April 21, 1810
Curtis, Philo C.	Paris, N. Y.	Nov. 17, 1810
Chandler, Stephen	New York	Feb. 4, 1811
Cummings, Benjamin	Palmer, Mass.	Mar. 2, 1811
Cutter, Ephraim	Walpole, N. H.	Sept. 27, 1811
Crosbie, Richard	Newark, N. J.	Jan. 6, 1812
Crafts, Chauncey	Woodbury, Ct.	Feb. 10, 1812
Chickering, Nathaniel, & D. Chickering	Dover, Mass.	
Clements, Stephen	Hartford, Vt.	
Campbell, Asa	Kingston, Pa.	
Cobb, Elkanah	Georgetown	
Canviss, Edward M.	Southington, Ct.	
Cornell, Gideon	Rensselaer co., N. Y.	
Cooper, Charles, and George Shaake	Lebanon, Pa.	
Cutter, Ephraim	Walpole, N. H.	
Church, Eli	Homer, N. Y.	
Comstock, Samuel, & Moses Pike	Harrisburg, Pa.	
Carrington, Daniel, & Ira Ives	Litchfield, Ct.	
	Nail, machine, for heading	
	Rolling, plating, and nail cutting machine	
	Fur, peltry, and extracting hair	
	Saw, machine for driving whip	
	Loom, weaving	
	Hair, from peltry, extracting	
	Fur cutting machine	
	Loom	
	Rims, making, without soldering, thimble	
	Loom crank	
	Loom	
	Whirl and regulator, for spinning flax, &c.	
	Nail machine, improvement on Newell's	
	Frame, water, for spinning cotton	
	Looms	
	Blankets, combining wool into	
	Horse hoofs, for making combs, clarifying	
	Roping and spinning, machine for	
	Loom	
	Machine for cutting fur from peltry	
	Wheel head	
	Spinning and roving, machine for	
	Comb twining machine	

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Carelton, Jedediah	Salem, N. H.	Hats, felt, from a mixture of clothiers frocks with sheeps wool, manufacturing	Jan. 21, 1814
Coulter, John, and Stephen Gano	Berkeley co., Va.	Loom	April 18, 1814
Craig, Seth	Philadelphia, Pa.	Loom	Oct. 18, 1814
Chappins, John F.	New York	Spinning hemp and flax	Nov. 8, 1814
Collins, John B.	Meriden, Ct.	Moulds, single jointed, pewter, for casting wire eyes, button	April 12, 1815
Cooper, Charles, and George Shalk	Lebanon, Pa.	Loom	May 31, 1815
Christie, Joseph A.	Elizabethhtown, N. J.	Nap on woollen cloth, carding and raising	Jan. 24, 1816
Curtis, Philo C.	Paris, N. Y.	Loom, water	May 28, 1816
Chapman, Samuel	Otsego, N. Y.	Loom	Aug. 30, 1816
Chandler, Stephen	New York	Rims, thimble	Sept. 20, 1816
Cronwell, Charles	Do	Ribbons, machine for smoothing and glossing	Jan. 27, 1817
Cruttenden, Tim.	Do	Wheel, spinning	May 12, 1817
Collins, James	Anson, Me.	Shears, revolving cloth	June 10, 1817
Cummings, Benjamin	Townsend, Mass.	Loom	Oct. 3, 1817
Child, Lewis	New York	Letters and figures, projecting metallic	Oct. 4, 1817
Cox, Benjamin	Northampton, Mass.	Rags, preparing for	Mar. 28, 1817
Colbert, Robert	Boston, Mass.	Cordage and rope making	Mar. 17, 1818
Croadsdale, Basaleel	Byberry, Pa.	Brushes from broom corn	Dec. 21, 1819
Crain, Eleazer	Springfield, Va.	Rope making machine	Jan. 10, 1820
Curtis, Elijah S.	Charlestown, Mass.	Brush for whitewashing	June 2, 1820

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Cass, Moses, and Aaron Bull	Carolina, N. Y.	Saw, two edged	Aug. 31, 1827
Collier, Elisha H.,	Plymouth, Mass.	Paper, manufacturing, from sea grass	April 15, 1827
Critchfield, Arthur	Union township, O.	Wool and cotton spinning machine	April 24, 1828
Cooper, Henrietta	Washington town, Pa.	Straw, leghorn, and gimp, whitening	Nov. 12, 1828
Cooper, John W.,	Do	Paper, from rags of various colors. Whitening straw, &c., for the same	
Conant Abel	Pepperville, Mass.	Auger, hollow	Feb. 7, 1829
Clark, A., & H. Chase	Falmouth, Mass.	Hat bodies, machine for making	June 11, 1829
Chubb, William	New York	Hair hackling machine	June 11, 1829
Chapin, Levi	Walpole, N. H.	Saws, hanging and straining	July 9, 1829
Dorr, Samuel G.	Albany, N. Y.	Nap on cloth, raising by wheel of knives	Oct. 13, 1829
Davenport, James	New Jersey	Duck, weaving and beating sail	Oct. 20, 1792
Duvall, Benj.	Virginia	Steel, for cutting glass, tempering	Feb. 14, 1794
Daniel, Phineas	Philadelphia, Pa.	Shot, making	Feb. 14, 1799
Dyer, William B.	Baltimore	Cordage, spinning wheel for making	Mar. 31, 1804
Dawson, Jones	Philadelphia, Pa.	Suspenders	Feb. 27, 1804
Dorr, Russell	Kinderhook, N. Y.	Cloth, shearing	Nov. 6, 1806
Dodge, Jordan	Rutland, Vt.	Nail and brad machine	May 8, 1807
Dewey, David	Poultney, Vt.	Cloth, machine for shaving	July 11, 1807
Drury, William	Brookfield, Mass.	Wheel, spinning	June 27, 1809
Decatur, Stephen, and			Mar. 19, 1810
William Tatham	Duceyter, N. Y.	Horse shoes, machine for making	Oct. 11, 1810
Downer, Elisha	Philadelphia, Pa.	Hammer, trip.	April 11, 1810
Davis, James		Suspenders	May 15, 1810

Dickerman, Lemuel	Seaghticoke, N. Y.	Cloth, shearing and laying the nap of -	July 18, 1812
Drummond, John	New York	Lathe, weavers'	July 24, 1813
Durrin, Edmund	Weatherfield, Vt.	Machine, zigzag shearing	Jan. 21, 1814
Derby, Joseph H.	Leominster, Mass.	Combs, at a single operation, cutting	Mar. 26, 1814
Davey, James	Fair Haven, Vt.	Nails, machine for heading cut	April 7, 1814
Dudley, Luther	Sutton, Mass.	Scythes, manufacturing	May 27, 1814
Dewey, David	Poultney, Vt.	Machine, vibrating shearing	Dec. 7, 1814
Danielson, Asa	Oisego, N. Y.	Mill, fulling	May 16, 1815
Dexter, Willoughby	Winchester, Ct.	Andirons	May 17, 1815
Duncan, William, and	Aeworth, N. H.	Cloth, raising nap on -	May 29, 1815
John Davidson	Worcester, Mass.	Horn and tortoise shell, stamping engravings on	April 30, 1816
Derby, Joseph H.	Weston, Mass.	Weaving	June 7, 1816
Draper, Ira	Windsor, Ct.	Cards, machine for grinding and facing	Feb. 28, 1817
Drake, Gideon	Boston	Screw machine	Aug. 8, 1817
Dow, Phineas, and D.	Rutland co., Vt.	Cloth, machine, shearing	Mar. 16, 1818
Treadwell	Canton, Mass.	Lathe for turning gun barrels	Aug. 24, 1818
Dewey, David	New York	Nets for catching fish, gill	Aug. 27, 1818
Dana, Daniel, and An-	Boston, Mass.	Twining, tarving, and spooling	April 3, 1819
THONY Holmead	New York	Locks	April 4, 1820
Drummond, James	Harper's Ferry, Va.	Barrels, draw, grinding, gun	July 28, 1820
Decker, Israel	Burlington, Vt.	Locks and latches	Aug. 12, 1820
Day, Henry, and Jac.	Philadelphia	Mantle pieces, cast iron	Feb. 21, 1821
Dakin, Thomas	Watervile, N. Y.	Crucibles, making	Sept. 26, 1823
Durkie, Harvey, assig-	St. Alban's, Vt.	Nogle, prevent its burning, bellows	Jan. 20, 1824
of J. Chittenden	Norton, Mass.	Speeder, counter twisting	Sept. 2, 1824
Deaves, Isaac	Troy, N. Y.	Beams, pattern for casting iron	Dec. 28, 1824
Deliba, James	New York	Chest, wrought fire proof iron	Mar. 7, 1826
Dodge, James, Jr.			
Danforth, George			
Dana, Aaron			
Delapo, Jesse			

LIST OF PATENTEES—FACTORY MACHINERY—Continued

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Day, William -	Gardiner, Mass.	Machine for dipping candles	-	Mar. 11, 1826
Davis, S., H. P. Bab- bitt, and B. P. Grin- nell -	Providence, R. I.	Seals, watch -	-	Mar. 3, 1827
Davis, Jos. S. -	Providence, R. I.	Keys, watch -	-	April 3, 1827
Dummer, Phineas C. -	Jersey City, N. J.	Moulds for pressing glass	-	Oct. 16, 1827
Daley, Edmund -	Baltimore -	Chair -	-	Feb. 9, 1827
Daley, Jacob -	Do -	Chair, repairing and finishing	-	Feb. 22, 1827
Dummer, G. & P. C., and J. Maxwell -	Jersey City, N. J.	Moulds, combination of, in forming glass	-	Oct. 16, 1827
Deweese, John C. -	Mason co., Ky.	Cotton bagging, spinning	-	Dec. 28, 1827
Duncan, Sam -	Northampton, N. Y.	Cloth machine, vibrating and napping	-	Jan. 21, 1828
Dickinson, George -	New York -	Wicks, cotton yarn	-	Feb. 21, 1828
Danforth, Charles -	Ramapo, N. Y.	Bobbins and flyers for cotton spinning	-	Sept. 2, 1828
Doutt, Thomas, jr. -	Philadelphia, Pa.	Glass, melting and fusing	-	Oct. 10, 1828
Debit, William -	E. Hartford, Ct.	Machine for cleaning rags	-	Jan. 13, 1829
Draper, Ira -	Saugus, Mass.	Temples, Rotary	-	April 1, 1829
Davis, Shadrach, jr. -	Dartmouth, Mass.	Nail, machine wrought	-	Dec. 8, 1829
Dawacott, George -	Boston, Mass.	Punch, power press	-	July 21, 1829
Dunn, W. J. -	New York -	Sharpener, knife	-	Aug. 18, 1829
Earle, Pliny -	Massachusetts -	Leather, pricking, for cards	-	Dec. 6, 1803
Elgar, Jos. -	Rockville, Md.	Nails and brads, making from rolled iron	-	Dec. 16, 1803
Elgar, Jos. and Jno. -	York Town, Pa.	Nail manufacturing	-	Sept. 1, 1809
Ellis, Jonathan -	-	Brad cutting machine	-	Feb. 10, 1807
Ellis, Abner -	Dedham, Mass.	Chair bottoms,	-	June 12, 1811

Eastman, Abiather	Norway, Mass.	Nail and spike machine	April 8, 1811
Elgar, Nathan	York, Pa.	Nail machine	June 19, 1815
Elliott, James, Jr.	Philadelphia	Chair bottoms	May 26, 1812
Elgar, John	York, Pa.	Nail manufacturing	June 21, 1815
Elgar, Nathan	York, Pa.	Nails, cutting and heading	July 25, 1815
Elicott, George	Baltimore	Rolling bar iron &c	Sept. 20, 1816
Edwards, John	New York	Printing and forming colored figures on hard substances	Aug. 22, 1816
Edwards, John	New York	Beams, manufacturing scale	Nov. 19, 1816
Eastman, Cyrus	Hillshoro', N. H.	Tubes, rolling metallic	April 16, 1818
Elicott, Evan J.	Baltimore	Plates and sheet, manufacturing iron into	May 28, 1818
Eastman, Rob. and J.			
Jaquith	Brunswick, Mass.	Saw, circular, for clapboards	Mar. 16, 1820
Evans, David	Alexandria	Hats, napping with rabbit's fur	Oct. 2, 1820
Ewbank, Thomas	New York	Lead, tinned sheet	May 30, 1823
Edwards, John	New York	Pots, kettles, &c., elevator, &c.	Mar. 19, 1825
Farrington, Thomas	Boston, Mass.	Wood and bark, sawing	May 9, 1792
French, Daniel	Connecticut	Nails, cut	Dec. 23, 1796
Do	Do	Nails, wrought	Dec. 23, 1796
Frost, Jason	Vermont	Nails, heading	Dec. 23, 1796
Fling, Lester	Massachusetts	Nails, manufacturing	Dec. 19, 1797
Fobes, Nathan	Do	Nail manufacturing	Aug. 2, 1802
Fairbanks, John	Connecticut	Rules, cylindrical paper	Nov. 30, 1803
Frost, Abm.	Middletown, Ct.	Paper, machine for preparing top and swinged tow	Mar. 19, 1804
Fordes, Nathan	Middlesex, Mass.	Barrels, boring gun	Dec. 22, 1804
Fox, Joel, Jr.	New York	Oakum, manufacturing junk into	Oct. 9, 1805
Fulton, Robert, and N.	{ Washington City	Hammer, machine for working the trip	Feb. 25, 1807
Cutting	Boston, Mass.	Cordage, machine for manufacturing	Mar. 4, 1808
Fairbanks, John	Flemingsburg, Ky.	Machine, cylindrical ruling	April 21, 1808
Foster, Nathaniel	Hemp and flax, spinning	Hemp and flax, spinning	June 28, 1809
Fairbanks, John	Boston, Mass.	Nail machine, eccentric roller	Aug. 14, 1810

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Ford, Joseph, & White, John -	Boston, Mass. Flemingsburg, Ky. New Haven, Ct. Bridgeport, Pa.	Paper hats Spinning machine Wool, machine for carding Buttons, turning	Nov. 25, 1811 July 8, 1813 May 18, 1814 April 23, 1816
Foster, Nathan -	Hudson, N. Y. Herkimer co., N. Y. New York -	Spinning and spooling bobbin, machine for Flatters plank kettle Chairs, manufacturing posts for sitting	June 29, 1816 July 15, 1816 Oct. 29, 1816
French, Lewis -	Providence, R. I. Poultny, Vt. Ridgefield, Ct.	Yarn, preparation for weaving Cloth, teasing and napping	Aug. 8, 1817 Nov. 25, 1818
French, Daniel -	Philadelphia -	Loom -	May 15, 1819
Flag, Calvin, & Obed Wright -	Medway, Mass. Do -	Comb cutting machine Speeder, double, No. 1 Do do No. 2	Oct. 28, 1819 Dec. 7, 1820
Fisher, Schuyler -	Do -	Do do No. 3	Dec. 7, 1820
Farrington, Elijah -	Do -	Do do No. 4	Dec. 7, 1820
Franklin, H. P. & W. B. Windsor -	Do -	Do do No. 5	Dec. 7, 1820
Foster, Aaron -	Do -	Do do combination of improvements on the	Dec. 7, 1820
Forrester, Lot -	Kennebec, Me. Whitestown, N. Y. New York -	Sleigh -	Dec. 30, 1820
Foot, Nison -	Washington, D. C. Attleborough, Mass.	Cloth, teasing and napping Candle making Paper hangings, printing Spinner, cotton	Aug. 24, 1821 Sept. 29, 1821 Aug. 22, 1822 Feb. 6, 1823

Finney, Jos. D.	Keene, N. H.	Chair, easy	May 8, 1823
Fry, Samuel	New York	Shears with carved edges	Nov. 20, 1823
Ferris, Elijah	West Chester, N. Y.	Marble, machine for rubbing or scouring	Mar. 7, 1826
Fairchild, Reuben	Trumbull, Ct.	Paper, manufacturing by the agitator	May 4, 1829
Freeborn, Gideon	New York	Hoe	July 7, 1829
Garretson, Isaac	Pennsylyania	Nail heading and cutting	Nov. 16, 1796
Grieve, David	Massachusetts	Looms	June 8, 1797
Garber, Michael	Virginia	Nail machine	Feb. 20, 1801
Gorham, Stephen	Massachusetts	Rope yarn and twine machine	Feb. 4, 1800
Groves, M. C.	Do	Nails, heading	Sept. 3, 1802
Garber, Michael	Staunton, Va.	Nails, manufacturing	April 17, 1804
Geysenhaymer, F. W.	Plymouth, N. H.	Nail cutting machine	Dec. 22, 1804
Gookins, Richard	New Hampshire	Hats, frame for wool	Jan. 24, 1806
Gaines, Richard	Georgetown, D. C.	Lock, balance pendulum	Mar. 17, 1806
Guild, Abner	Dedham, Mass.	Carding machine for wool hats	Mar. 31, 1806
Gragg, Samuel	Boston, Mass.	Chair, elastic	Aug. 31, 1808
Green, Samuel	New London, Ct.	Paper made from sea weed	Feb. 15, 1809
Gedney, Robert	New York	Combs from cattle hoofs	June 26, 1809
Greig, John	New co., Pa.	Hats, planking	Mar. 14, 1810
Groff, Philip	Little York, Pa.	Seine, mode of using the fishing	Dec. 16, 1809
Gehble, Ernst	Northampton co., Pa.	Files, cutting	Oct. 10, 1811
Giffen, William	New York	Flax or hemp, cylindrical frame for spinning or roving	Jan. 11, 1812
Giles, Nehemiah	Fitchburg, Mass.	Flyer for spinning	Nov. 19, 1812
Do	Do	Cotton, spinning	Nov. 19, 1812
Guiramond, John M.	Baltimore	Loom	Jan. 7, 1814
Gleason, James	Philadelphia, Pa.	Screws, manufacturing	Jan. 7, 1814
Gelzendeniar, Jacob	Frederick co., Md.	Blankets, improvement in Cobb's machine for making	Sept. 30, 1814
Griffing, Edward C.	Lyne, Ct.	Fur or wool, machine for bowing hatters'	Aug. 10, 1815
Gates, John M.	Warren, Mass.	Cards, composition for preparing cotton and wool	Sept. 14, 1815
Goodrich, William	Philadelphia, Pa.	Hats, manufacturing	Aug. 20, 1816
Gilpin Thomas	Philadelphia, Pa.	Paper making by machinery	Dec. 24, 1816

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Green, James	Harper's Ferry, Va.	Barrels, boring bit nuts for gun	Oct. 3, 1817
Greenwood, Holmes	Providence, R. I.	Metal, polishing powder for	Jan. 28, 1818
Grieve, David	Providence, R. I.	Weaving machine	April 11, 1818
Grieve, David	Providence, R. I.	Cotton, roping, twisting, and winding	Sept. 18, 1818
Guy, Francis	Baltimore, Md.	Carpets of paper	Feb. 23, 1819
Gurratt, William	New Lisbon, N. Y.	Emery, manufacturing	Feb. 27, 1819
Graves, Rob	Boston, Mass.	Cordage, manufacturing	April 10, 1819
Graves, Rob	Boston, Mass.	Gauge plates for making readies for ropes	Dec. 31, 1819
Gilmour, William	Smithfield, R. I.	Loom, power	Oct. 28, 1820
Graves, Rob	Boston, Mass.	Yarn into readies, drawing and forming	Nov. 22, 1820
Do	Do	Cordage, mode of laying	Nov. 22, 1820
Do	Do	Yarns, machine for equalizing the strain upon	Nov. 22, 1820
Do	Do	Cordage, machine for laying	Feb. 1, 1821
Do	Do	Cordage, top sled	Mar. 28, 1821
Grant, Jos.	Providence, R. I.	Hats, machinery for setting up	Aug. 11, 1821
Green, E., and M.	Litchfield, Ct.	Timber, bending	Mar. 20, 1822
Blackeslee	New York	Saw setter	Dec. 21, 1822
Grundy, Rufus	Washington, D. C.	Umbrella	July 3, 1824
Gamble, William	Ashford, Ct.	Spinning wool	Dec. 30, 1824
Griggs, John, jr.	Plumb town'p, N. Y.	Spinner, family, and bobbin winder	Feb. 19, 1825
Gill, John	Providence, R. I.	Hat bodies, machine for winding and setting up	April 28, 1825
Grant, Jos.	Sheshequim, Pa.	Auger, strap	July 20, 1825
Gore, Cyrus	New York	Loom, wire power	Feb. 23, 1826
Gustin, John S.	New York	Spoons, manufacturing	Dec. 7, 1826
Gale, William			

	Wool, &c., manufacturing		
Dedham, Mass.	Poliſhing hard and soft ſubſtances	Mar. 27, 1827	
Hartford, Vt.	Flat boxes, ſetting up, improvement on Grant's machine	April 10, 1827	
Providence, R. I.	Wool, manufacturing	April 27, 1827	
Dedham, Mass.	Wool, manufacturing, &c.	July 10, 1827	
Do	Andiron's, conſtructing feet of brass	Mar. 15, 1827	
New York	Cordage by machinery, manufacturing	July 25, 1827	
Brooklyn, N. Y.	Improvement in the composition to start the oil contained in wool		
Dedham, Mass.	Wool, manufacturing	Aug. 24, 1827	
Do	Shuttle, mode of throwing the	Aug. 24, 1827	
Do	Wool, manufacturing, and other fibrous material	Aug. 24, 1827	
Do	Do	Feb. 16, 1829	
Dunstable, N. H.	Mule, ſelf-operating	Feb. 16, 1829	
Dedham, Mass.	Wool, manufacturing, or other fibrous material	April 10, 1829	
Do	Do	June 11, 1829	
Litchfield, Ct.	Nail and ſcrew machine	July 21, 1829	
Mount Pleasant, N.J.	Thread, spinning and twisting	July 25, 1829	
Westminster, Eng.	Steel, tempering	Jan. 28, 1792	
Do	Casting iron	Feb. 24, 1792	
Gould, Stephen, Jr.	Nail machine	Feb. 26, 1799	
Herbert, Obadiah	Lathe weaving	Jan. 4, 1799	
Hartley, David	Beaming machine	Mar. 15, 1800	
Hancock, William	Auger	May 6, 1805	
Hart, Seth	Hone, metallic	July 12, 1804	
Harris, William	Suspenders	May 4, 1805	
Hill, Allen	Auger	March 5, 1806	
Hoxie, Christopher	Nail cutting machine	Feb. 7, 1807	
Houston, John	Lathe, turning, uniform	Jan. 28, 1808	
Horwell, Richard	Carding and spinning wool machine	June 10, 1809	
Hale, William	Paper, carbonated, for multiplying writings	Jan. 8, 1810	
Hicks, Jonathan	Philadelphia	April 30, 1810	
Haggert, Amos			
Holmes, Alanson			
Hartshorn, Joseph			

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Hoskin, Shubael Hearick, Eben.	Catskill, N. Y. Albany, N. Y.	Hats, military, manufacturing Spinner, domestic Saw, wood	April 30, 1810 Aug. 17, 1810 July 31, 1809
Hamilton, James Hancock, Rbt., sen., & Edward W. Carr	Brookfield, Mass. Philadelphia, Pa. Canaan, N. Y.	Cutting wooden screws Shearing machine Wool, spinning and drawing Wire, machine for rolling	March 1, 1811 May 2, 1811 Oct. 4, 1811 Jan. 11, 1812
Hovey, Eleazer Humphreys, William Howell, James Hesser, Charles, and Amos Paxson	Humphreysville, Ct. Philadelphia Philadelphia	Cutting files Screws, machine for cutting	April 11, 1812 May 15, 1812
Hazard, Elisha, and Josiah White Holladay, H. S., and E. G. Griffin	Philadelphia	Hats, bowing wool for Cordage machine Cloth, brushing and finishing Loom Do	June 6, 1812 June 30, 1812 July 27, 1812 Oct. 16, 1812 Aug. 3, 1813 Aug. 4, 1813
Hill, Abel Hart, Seth Heavin, John Do	Walpole, N. H. Hempstead, N. Y. Montgomery co., Va. Do	Rope and twine Wheel, spinning	— — — —
Hurlbut, Daniel Hollingshead, John, & Daniel Baker	Aurelius, N. Y. Trenton, N. J.	Hair, extracting from skins	Aug. 19, 1813
Holstead, Eben., and John Haight Hess, John Hills, Silas	New York Hempfield, Pa. Hudson, N. Y.	Doubling, twisting, and reeling machine Loom, revolving weaving Oloth shearing machine	Aug. 30, 1813 Oct. 2, 1813 Oct. 22, 1813

Herrick, Ebenezer	Stockbridge, Mass.	Loom, stocking	Oct. 22, 1813
Haines, John	Richmond, Va.	Screws, machine for cutting	Dec. 30, 1813
Heavin, John	Montgomery co., Va.	Loom	Feb. 18, 1814
Howe, Martin	New York	Augers	April 2, 1814
Hawes, Silas	Bennington, Vt.	Files, machine for cutting	May 11, 1814
Hathaway, Charles	Walton, N. Y.	Loom, family	Oct. 11, 1814
Hill, William F.	New York	Needle and pin machine	Oct. 15, 1814
Harrison, Thomas, and Robert Pierpont	New York	Silk dying	Oct. 18, 1814
Hills, Samuel, and Moses Emery, Jr.	Newburyport, Mass.	Comb stamp, twining, and horn splitting machine	Oct. 21, 1814
Hadley, Benjamin	New Haven, Ct.	Wheel lathe	Dec. 16, 1814
Hatch, John	Dedham, Mass.	Files, machine for cutting	May 1, 1815
Hugus, James	Greenhush, Pa.	Carding machine by gleaning savers	Sept. 15, 1815
Hayes, Henry	Philadelphia, Pa.	Nail manufacturing	Feb. 24, 1816
Henry, Lewis	Bellows Falls, Vt.	Paper, machine for ruling	Aug. 24, 1816
Hanks, Benjamin	Albany, N. Y.	Bells, moulding and casting	Nov. 4, 1816
Hedge, Lemuel	Windsor, Vt.	Ruler, revolving	March 3, 1817
Hall, Francis	Charlestown, Mass.	Loom, lint	Nov. 28, 1817
Hall, Aaron & John	Boston, Mass.	Silk, removing spots in	Dec. 31, 1817
Hill, William F.	New York	Saw, circular	July 11, 1818
Haskell, Benjamin	Paris, France	Comb cutting machine	Nov. 3, 1819
Hines, William	Coventry, R. I.	Speeder for winding cotton, double	Feb. 6, 1819
Hotchkiss, Elihu, and Aaron Jayne	Brattleborough	Cloth shearing machine	Dec. 15, 1819
Holmes, W.	Winchester, N. H.	Auger, using for boring guns, twisted screw	April 4, 1820
Hatch, John	Baltimore	Watch chains	June 5, 1820
Haight, Jno. & Nicholas	New York	Carpeting, ingrain	Aug. 12, 1820
Hardy, S. & E.	Kennebec, Me.	Reel for spinning tobacco	Dec. 30, 1820
Herbin, Peter F.	Patterson, N. J.	Reeds for weavers, metallic	Nov. 15, 1821
Hart, Webb	Canden, S. C.	Saw teeth, machine for setting	Dec. 7, 1821

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Hedle, Paulus	New York	Railings, ornamenting the tops of iron and other	Feb. 21, 1822
Heald, E.	Norridgewock, Me.	Cloth, machine for shearing	Dec. 4, 1822
Hopkins, William	Plainfield, Ct.	Cotton whipper	March 6, 1823
Hopkins, Jesse	Strasburg, Pa.	Vibrating rolling cotton or wool machine	Jan. 14, 1824
Haworth, William	Providence twnsh., Pa.	Spinning cotton machine	June 2, 1824
Do	Do	Mule carriage for spinning cotton	June 2, 1824
Hoxie, Christopher	Hudson, N. Y.	Auger, post	July 26, 1824
Hovey, William	Worcester, Mass.	Cloth shearing machine	Dec. 17, 1824
Hunt, H., & C. Bradish	Lowville, N. Y.	Spinner, horizontal cotton and wool	Dec. 24, 1824
Honey, John W.	Herculanum, N. Y.	Shot screening table	Feb. 10, 1825
Hale, E., J. S. Hale, &	Haverhill, Mass.	Wool carding machine	Feb. 18, 1825
James Hale	Brookville, Ind.	Bells	March 3, 1825
Hoyt, William	Rutland, N. Y.	Cloth, scouring and fulling	Mar. 26, 1825
Hickox, Horace	Providence, R. I.	Picker tube, used in weaving	Feb. 21, 1826
Holbrook, Benjamin	Knox, N. Y.	Spinner, improvement on Calvin Merrill's horizontal	May 2, 1826
Hunt, D., & S. Wheeler	Shutesbury, Mass.	Lathe turning	June 8, 1826
Hunt, John	Martinsburg	Flax and hemp spinning machine	June 22, 1826
Hunt, W., & W. Hoskins	Poultney, N. Y.	Spinner, cotton and wool	July 24, 1826
Hathaway, Joseph	Jamestown, N. C.	Fur from the skin, machine for cutting	Nov. 4, 1826
Hubbard, Jeremiah	Do	Loom, domestic	Nov. 6, 1826
Do	New York	Dying hair of seal skins	Nov. 16, 1826
Herring, Joseph	Wheeling, Va.	Hats by steam, manufacturing	Dec. 29, 1826
Haskins, William	Poultney, N. Y.	Blowing and striking for blacksmiths	March 3, 1827
Hoyt, L., & E. Pierce	Harper's Ferry	Substances, machine for cutting metallic	March 7, 1827
Hall, John H.			

Hempsted, Stephen, jr.	St. Charles co., Mo.	Hats, stiffening for water proof	May 25, 1827
Hutchinson, Benja.	Philadelphia	Bobbin, tube for spinning cotton	Oct. 18, 1827
Hempsted, Stephen, jr.	St. Charles co., Mo.	Hats, stiffening for water proof	Oct. 26, 1827
Harrington, Isaac H.	Albany, N. Y.	Knife, carrier's	June 26, 1828
Haddock, Marsden	New York	Paper, by the flat press, manufacturing	July 17, 1828
Hemenway, Luther	Sullivan, N. H.	Vice, socket	Sept. 4, 1828
Hatch, John	Roxbury, Mass.	Files, machine for cutting	Oct. 10, 1828
Hunting, Mason	Watertown, Mass.	Paper top press, roller for making	Oct. 20, 1828
Howell, B. B.	Philadelphia	Iron, manufacturing malleable	Nov. 6, 1828
Hazard, J. P. & R. G.	Providence, R. I.	Cloth, manufacturing	Dec. 6, 1828
Harris, Nathaniel	Fairfield co., Ohio	Spinning wool and cotton by hand	Jan. 21, 1829
Harrington, William	Harrison, N. Y.	Carpeting, woollen	March 3, 1829
Howe, Tyler	Spencer, Mass.	Saw, circular, revolving	Feb. 19, 1829
Hunt, Walter	New York	Knife sharpener, and compound guard	Feb. 19, 1829
Harrington, William	Harrison, N. Y.	Carpeting, woollen	June 11, 1829
Hills, Stephen, 2d	Glastonbury, Ct.	Rope maker	June 11, 1829
Hunt, Walter	New York	Twister, self-supplying	June 11, 1829
Horton, Wm. B.	Middletown, Ct.	Spade, pronged	June 15, 1829
Hubbard, Oliver	Claremont, N. H.	Tin ware, &c.	Nov. 12, 1829
Hall, Chauncey	Meriden, Ct.	Fences and nets, wire	Nov. 27, 1829
Hurd, Merritt	Augusta, N. Y.	Shearing nap from woollen cloth	Dec. 7, 1829
Hatch, John	Westford, Vt.	Gauge, applied to the saw set	Oct. 12, 1829
Jennings, Isaiah	New York	Thimbles for sailmakers, manufacturing	Nov. 20, 1807
Do	Do	Rivets, machine for making	April 23, 1808
Jelleff, Joseph	Butternuts, N. Y.	Nail machine	June 14, 1809
Jones, Nat	Southington, Ct.	Combs, wooden	May 9, 1809
Jennings, Isaiah	New York	Saw, hand	April 17, 1809
Jope, John W.	Philadelphia, Pa.	Shot, manufacturing	July 17, 1809
Janes, Walter	Ashford, Ct.	Weaving machine	Feb. 16, 1810
Do	Do	Winding spools and bobbins for weaving	Aug. 20, 1810
Do	Do	Loom	Sept. 1, 1810

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Jones, Noel	Madison co., N. Y.	Flax and hemp, spinning, reeling, and spooling	Mar. 14, 1812
Ives, Ira	Bristol, Ct.	Fur from skins, cutting	May 19, 1812
James, Wm. T.	Greenwich, N. Y.	Files, machine for cutting	Nov. 19, 1812
Jessup, John	Orange co., N. Y.	Cloth, carding	Feb. 6, 1813
Janes, Walter	Ashton, Ct.	Loom, domestic and factory	Mar. 20, 1813
Jackson, Cyrus	Butternuts, N. Y.	Files, machine for making and cutting	May 28, 1813
Janes, Alfred	Hartford, Ct.	Boots, &c., tassels and cords	March 1, 1813
Jenks, Ebenezer	Colebrook, Ct.	Fish hooks, steel card teeth, elastic, making and using, and converting iron into steel	Nov. 13, 1813
Ives, Ira	New Haven, Ct.	Machine for holding buttons fast while polishing	June 18, 1814
Jackson, William	Burlington, N. J.	Fur from peltry, machine for cutting	Feb. 2, 1815
Do	Do	Do pulling	Feb. 2, 1815
Janes, Walter, and David Bolles	Ashford, Ct.	Heddles for weaving, metallic	April 26, 1815
Jelleffs, Joseph	Butternuts, N. Y.	Loom	May 24, 1815
Jillson, Asa	Dorchester, Mass.	Spindle for spinning	May 27, 1815
Do	Roxbury, Mass.	Spindle and flyer	July 17, 1815
Ives, Ira	Bristol, Ct.	Buttons, smoothing and rounding the edge of metal	Aug. 7, 1815
Do	Do	Buttons, cast in moulds, constructing eyes for metal	Aug. 7, 1815
Do	Attleborough, Pa.	Buttons, setting eyes of metal in the mould	Aug. 7, 1815
Jackson, Robert	Pembroke, Mass.	Loom	July 23, 1816
Josselyn, Charles	Plymouth co., Mass.	Anvil and hammer	Oct. 9, 1816
Jenkins, Gudley	Colebrook, Ct.	Brad and sprig machine	May 16, 1817
Jenks, Eb.	Otsego co., N. Y.	Steel, converting iron partially into	Jan. 28, 1818
Jackson, Cyrus		Auger for boring square holes	Feb. 14, 1818

Jones, Samuel	Bridgeport, Pa.	Hat rounder and gauge	June 2, 1819
Iwain, Wm. W.	New Bedford, Mass.	Candles, moulding sperm	Jan. 14, 1820
Ives, Thayler	Chillicothe, O.	Candlewick machine	May 17, 1820
Jarvis, Deming	Boston, Mass.	Moulds, machine for opening glass blowers'	Feb. 22, 1821
Jennings, Thomas L.	New York	Cloths, dry scouring for	Mar. 3, 1821
Jones, Francis	Do	Quill winding machine	May 23, 1821
Jennings, Isaiah	Do	Cable, chain	Oct. 29, 1821
Jordan, David C.	New York	Saw setter	Dec. 2, 1822
Ives, Ira	Bristol, Ct.	Combs, hair, manufacturing	April 5, 1823
Joye, Ezra	Brooklyn, N. Y.	Hatters' planking kettle	June 6, 1825
Judson, Levi C.	Waterville, N. Y.	Punch, rivet, and screw cutter	Nov. 18, 1825
Janes, Walter	Ashford, Ct.	Tire bending	June 19, 1826
Jenks, A., & J. Clewell	Holmesburg, Pa.	Temples, spring	Mar. 19, 1827
Janes, Walter	Ashford, Ct.	Tire bending	July 14, 1827
Jones, William	Thornville, O.	Spinner, family	July 27, 1827
Jones, Thomas	Glastonbury, Ct.	Hammers, cast iron	July 31, 1828
Johnson, Wm. M.	New York	Types, casting printers'	Aug. 21, 1828
Judge, John	Washington, D. C.	Cables, machine for proving hemp and chain	Nov. 29, 1828
Jarvis, Denning	Boston	Glass, moulding, &c.	Dec. 1, 1828
January, John	Greenville, Ky.	Reeding or fluting, straight or spiral, machine for	Mar. 3, 1829
Jennings, Isaiah	New York	Knife renovator	Mar. 17, 1829
Johnson, Israel, jr.	Moriah, N. Y.	Wheel and rest	May 1, 1829
Jarvis, Denning	Boston, Mass.	Glass knobs and screws	June 13, 1829
Jackson, William	Philadelphia, Pa.	Pencil, ever-pointed, construction	July 27, 1829
Kirk, Timothy, & Bob	Yorktown, Pa.	Wire weaving	May 9, 1792
Leslie	Vermont	Wool and cloths, shearing	Jan. 31, 1795
Kellogg, Samuel	Pennsylvania	Nails, cutting and heading	Feb. 24, 1797
Kersey, Jesse	New York	Hoops, nails cut from	May 1, 1801
Kent, Nathan	New Hampshire	Nails, brads, and springs	May 1, 1805
Kimball, Increase	Marlborough, Mass.	Woollen and other cloths, machine shearing	Nov. 22, 1805
Kellogg, Friend B.			

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Kennion, John Kinsey, Charles Kies, Mary Kellogg, George C. King, Benjamin	Dutchess co., N. Y. Essex, N. J. Killingly, Ct. New Hartford, Ct. Washington City, D.C.	Mill, fulling and washing Paper making Straw, weaving with silk or thread Cloth, shearing Steel or bar iron, mode of welding by pit coal, without the use of charcoal Cloth, shearing Carding hair of neat cattle Slates, horizontal machine for making holes in	Mar. 26, 1806 May 8, 1807 May 5, 1809 Mar. 4, 1811 Nov. 15, 1811 June 12, 1812 Nov. 4, 1813 May 29, 1817
Kennedy, Walter Kimball, Arthur King, Benjamin Kello, Jos., and James Carter	Frankfort, Ky. New York Washington City, D.C.	Nails, manufacturing Yarn, bleaching cotton and linen Bleaching Watch chains, machine for making Scythes, manufacturing Wool and cotton, roping and spinning Cordage machinery Saw, circular Nail machine Stocks, cast iron plane	June 10, 1817 Aug. 22, 1817 Oct. 8, 1818 May 4, 1820 Jan. 17, 1822 Aug. 16, 1824 Feb. 8, 1825 May 18, 1826 Sept. 23, 1826 Aug. 24, 1827
Kendall, Jonas Keintzle, George Keplinger, Samuel Kemball, Ephraim Knox, Z., & W. Hoskins Kellsey, Franklin Kendall, William, jr. Krauser, Joseph Knowles, Hazard Kellogg, Isaac, & Geo. C. Kellogg	Philadelphia Leominster, Mass. Montgomery co., Pa. Baltimore Fitchburg, Mass. Louisville, N. Y. Middletown, Ct. Kennebec, Me. Philadelphia Colchester, Ct.	Cloth, machine for shearing Saw for clapboards, circular Fly net for horses Spindles, diminishing the friction of	April 7, 1828 Oct. 11, 1838 Sept. 12, 1829 Aug. 4, 1791
Kidder, Jonathan Korn, Henry Livingston, R. R.	New Hartford, Ct. Gorham, Me. Philadelphia Clermont, N. Y.		

Leslie, Rob.	Philadelphia	Bells	Feb. 2, 1793
Livingston, Robert R.	New York	Paper, manufacturing	Oct. 28, 1799
Ladd, Jer.	New Hampshire	Machine, beaming	July 17, 1801
Leslie, William	Do	Nail machine	Nov. 5, 1801
Langstroth, Thomas	Buck's county, Pa.	Paper making	May 1, 1804
Lester, Ebenezer	Herkimer, N.Y.	Moulds for casting iron screws	May 10, 1805
²² Lester, Ebenezer	Little Falls, N.Y.	Do trundleheads	Feb. 12, 1827
Langdon, Barnabas	St. Albans, Vt.	Tin ware, manufacturing	May 10, 1827
Lainhart, Henry, Jr.	Baltimore, Md.	Hat manufacturing	July 6, 1809
L'Hommedieu, Ezra	Saybrook, Ct.	Auger, double pointed centre screw	July 31, 1809
Lloyd, Robert	Philadelphia, Pa.	Loom for weaving girth and cloth	Feb. 8, 1810
Lorillard, Peter	New York	Tobacco, manufacturing	April 25, 1810
Laighton, Mark	Portsmouth, N.H.	Rollers for sheaves of blocks	Mar. 14, 1810
Lester, Eb. A.	Herkimer, N.Y.	Nail cutting machine, vertical balance wheel	May 8, 1811
Larnabee, Lebbius	Nantucket, Mass.	Boxes for pulleys, casting metallic	Nov. 4, 1811
Leonard, Enoch	Canton, Mass.	Steel, converting pig iron into	Jan. 6, 1812
Ludlum, James M.	New York	Shot, turberlated cylinder	Aug. 3, 1813
Lutgen, Henry	Marietta, Pa.	Nails, machine for cutting	Sept. 8, 1813
Lester, Eb. A.	Herkimer, N.Y.	Nail cutting machine, vibrating	April 2, 1814
Love, John	Baltimore	Cup and saucer, metallic, Columbia	June 14, 1814
Lovel, Y. C., and P. T.	Boston	Loom	Feb. 23, 1815
Jackson	Meriden, Ct.	Button, lathepin for turning wire-eyed	April 12, 1815
Lawrence, William	Watertown, Mass.	Wool, roping and spinning	Aug. 3, 1815
Lerner, Samuel	Baltimore, Md.	Nail machine, cylindrical vibrating	Dec. 27, 1815
Lester, Eb. A.	Gulfport, Ct.	Wheel heads	May 6, 1816
Lee, David	Philadelphia	Comb teeth, cutting	May 28, 1816
Littleboy, Manly J.	Norwich, Ct.	Auger, single twist	July 17, 1816
L'Hommedieu, Ezra	New York	Type moulds	Dec. 18, 1816
Lothian, Geo. B.	Canandaigua, N.Y.	Wheel, small spinning	Mar. 29, 1817
Lewis, Nathan	Otsego, N.Y.	Mill, fulling	Nov. 6, 1817
Lee, Martin			

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Langworthy, Wm. A.	Ballstown, N. Y.	Combs, metallic hair	Feb. 28, 1818
Long, James	Maryland	Hats, napping	Aug. 5, 1799
Lewis, Nathaniel H.	New York	Sheaves for blocks	Aug. 26, 1818
Leonard, William B.	Fishkill, N. Y.	Spindle and bobbin for spinning cotton	Jan. 9, 1819
Leonard, William B.	Do	Cordage machine	Jan. 9, 1819
Lamb, Joshua	Leicester, Mass.	Card machines, packing sheets of leather used on cylinders of	Aug. 21, 1819
Lymar, Anthony	New York	Bell hanging	Dec. 24, 1819
Langdon, Reuben	Hartford, Ct.	Thread packing	June 20, 1821
Lewis, Charles, and C.	Poughkeepsie, N. Y.	Throstle spindle	June 26, 1822
Taylor	Boston, Mass.	Locks	Nov. 28, 1822
Leman, Eb., Jr.	New Brunswick, N.J.	Iron into steel, converting	Nov. 20, 1823
Losey, Eleazer L.	New York	Ornamental borders, casting	Oct. 8, 1824
Lewis, Joseph I.	Pulaski, Ten.	Screw cutter, wooden	Dec. 12, 1825
Lynch, James	Fishkill, N. Y.	Loom power	May 23, 1827
Leonard, William B.	Do	do do by taking up the cloth uniformly	May 23, 1827
Leonard, William B.	Queensbury, N. Y.	Spinner for wool	June 99, 1827
Lapham, Benjamin	Leicester, Mass.	Teeth, cutting card	Aug. 1, 1827
Lamb, Joshua	New York	Frame chain	Nov. 19, 1827
Leslie, David	Do	Paper ruling	Aug. 13, 1828
Lanuza, C.	Sterling, Mass.	Scythe snath	Dec. 29, 1828
Lamson, Silas	Hanover co., Va.	Combs, forming and shaping	Jan. 9, 1829
Longarrecker, S., and Charles Myers	Lancaster county, Pa.	Plane, groove-	Feb. 7, 1829

Leavally, William Lapham, Benja'n, and E. Cady	Canterbury, Ct.	Mar. 20, 1829
Longsbury, Jno. D., Jno. Arnold, John A. Mc- Clean, & G. G. Bishop	Canaan, N. Y.	April 15, 1829
Mulliken, Samuel Morse, David Minor, Amos	Norwalk, Ct.	July 15, 1829
Melville, Sam'l Roger Morrison, Michael McIlwham, Thomas Miller, William Moss, Moses	Philadelphia Massachusetts	Mar. 11, 1791
Minor, Amos	Otis, Mass.	June 10, 1803
Miller, William	New Bedford, Mass.	Nov. 16, 1803
Moss, Moses	Princeton, R. I.	Dec. 7, 1803
Miller, William	New York	Feb. 14, 1806
Mathews, Heman	Farmington, Ct.	Oct. 6, 1806
Miller, William	Marcellus, N. Y.	Jan. 6, 1809
Mussy, George C.	Delaware	Jan. 10, 1809
Molleneux, Jesse	New York	April 11, 1810
Morrison, Michael	Philadelphia, Pa.	May 15, 1810
Miller, Nathaniel, and Philip W. Miller	Hempstead, N. Y.	Sept. 26, 1810
May, Samuel	Boston, Mass.	Mar. 4, 1811
Messer, Frederick	Franklin, Mass.	April 28, 1811
Mathes, James	Columbia, Pa.	Aug. 15, 1811
Meine, Alexander, and Daniel S. Deane	Guildhall, Vt.	Aug. 20, 1811
Moore, Richard	Barre, Vt.	Jan. 11, 1812
McThordike, John	Clinton, N. Y.	Jan. 23, 1812
Mead Benjamin, and Giles Richards	Lycoming, Pa.	May 27, 1813
		July 14, 1813
		Jan. 13, 1814
		March 7, 1814
		July 2, 1814
		Dies of metals

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Morse, Moses L.	Boston, Mass.	Pins of wire, at one operation, making		Aug. 22, 1814
Mervin, Daniel, and Horace Killogg	Hudson, N. Y.	Cloth, machine for napping		Oct. 28, 1814
	New Haven, Ct.	Buttons, &c., lathe for turning and polishing		Jan. 4, 1815
Merian, Lauren		Screws, machine for cutting and heading		Mar. 30, 1815
Mason, John	Southington, Ct.	Button moulds, wooden		April 26, 1815
Mathews, Anson	New York	Paper, cloth, &c., staining and printing		June 28, 1815
Mestayer, Benjamin	Southington, Ct.	Buttons, machine for making wireneck metal		Sept. 12, 1815
Mathews, Heman	Do	Buttons, in finishing metal		Sept. 12, 1815
Mathews, Heman	Boston, Mass.	Yarn from bobbins, winding		Mar. 9, 1816
Moody, Paul	Albany, N. Y.	Chair, reclining		Mar. 18, 1816
Mead, John	Concord, N. H.	Fur cutting and cloth shearing machine		Dec. 7, 1816
Marshall, Benjamin, & Dearborn Johnson	Albany, N. Y.	Chair, convalescent		Mar. 13, 1817
Mead, John	Do	Couch, accommodation		Mar. 14, 1817
Mead, John	Homer, N. Y.	Nail manufacturing		April 18, 1817
McCluer, Heman	New London, Ct.	Loom, water		June 10, 1817
Mussey, Thomas	Waltham, Mass.	Cloth, sizing and dressing		Jan. 17, 1818
Moody, Paul	Norfolk, Mass.	Hats, manufacturing		Feb. 20, 1819
Mason, Silas	Boston, Mass.	Speeder, double		April 3, 1819
Moody, Paul	Sherburne, N. Y.	Spinning wheel head		April 10, 1819
Mudge, Isaac, and Miller Hatch	Boston, Mass.	Cotton, frame for spinning		May 6, 1819
Moody, Paul	New London, Ct.	Gridiron, guttered		Mar. 6, 1820
Mussey, Thomas	Waltham, Mass.	Speeder, double		Dec. 30, 1820
Moody, Paul				

Moor, Paul	Boston, Mass.	Cotton, roping and roving	Jan. 19, 1821
Moody, Paul	Do	Do	Feb. 19, 1821
Moody, Paul	Do	Speeder, double	Feb. 19, 1821
Moody, Paul	Do	Spinning frame, cotton	Feb. 19, 1821
Morgan, James	Baltimore, N. Y.	Warping and dressing cotton goods	April 5, 1821
Morgan, Thomas	Hampstead, N. Y.	Nail manufacturing	Sept. 5, 1821
Mestayer, Benjamin	New York	Boxes, machine for cutting band	Nov. 13, 1821
McNamara, Charles	North Bridge, Mass.	Seythes	Jan. 30, 1822
Maltby, Benjamin	New York	Loom, domestic	April 13, 1822
Mason, David H.	Philadelphia	Plates for engraving and printing, metallic	May 17, 1822
McNamara, Charles	North Bridge, Mass.	Seythes, finishing	Jan. 31, 1823
Morgan, Thomas	Patterson, N. J.	Nail machine, self feeding	June 17, 1824
Morse, Solomon	Sempnorius, N. Y.	Saw sharpener	April 26, 1824
Merrill C., C. Batchelor, and S. King, jr.	Lowville, N. Y.	Spinner, horizontal	July 3, 1824
Manchester, Job	Warwick, R. I.	Tube, bobbin	Dec. 13, 1824
Macaulay, Isaac	Philadelphia	Oil cloth	April 4, 1825
Miner, Amos	Camillus, N. Y.	Milk pans	July 20, 1825
Marsh, Stephen	Fairfax, Va.	Napping cloth	July 20, 1825
Meredith, Jos.	Lebanon, Pa.	Tire bending	Sept. 9, 1825
McClinic, Jno., and Geo. Faber	Chambersburg, Pa.	Paper cutting machine	Dec. 18, 1825
Macomber, L. L.	Bath, Me.	Hats, machinery, planking wood	Dec. 31, 1825
Mason, David H.	Philadelphia	Ornamental rolls and stamps for book-binders	Jan. 26, 1826
Matthews, Jas.	Schenectady, N. Y.	Jenny, vertical	May 2, 1826
Metcalf, Silas	Wilmington, Vt.	Chisel bearded mortising machine	Jan. 17, 1827
Myerle, David	Philadelphia	Rope layer, combined jack and breastwork	Mar. 3, 1827
McClinic, Jno.	Chambersburg, Pa.	Paper, machine for trimming	Mar. 31, 1827
Mayhew, Truman F.	Boston	Hats, bowing, gearing of cones for	Aug. 22, 1827
McDonald, John	New York	Fur, separating hair from	Sept. 11, 1827

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAME OF PATENTEE.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Mason, D. H. and M. W. Baldwin	Philadelphia Leverett, Mass.	Biting the figures on steel cylinders for printing calicoes	Oct. 30, 1827
Moore, Jefferson	Meadville, Pa.	Lathe, turning Paper, manufacturing	Jan. 19, 1828
Magaw, Wm.	Troy, Mass.	Loom, satinet power	March 8, 1828
Mitchell, Rd., and Na- thaniel Butterworth	Henrietta, N. Y.	Knives for cutting sole leather, sett of Wool and cotton from the roll, spinning	June 22, 1828
Marble, Luke	Vincennes, Ind.	Paper, preparing hay, straw, &c., for manufacturing	Mar. 28, 1828
McCall, Wm. R.	Meadville, Pa.	Combs, ornamenting	May 12, 1828
Magaw, Wm.	Philadelphia	Nails, cutting and heading	May 22, 1828
Mustin, Eb.	Massachusetts	Nail machine, wrought	June 27, 1829
Newill, Jona.	Rhode Island	Bow-spring for hatters	Aug. 12, 1797
Nichols, Jona.	New Milford, Ct.	Screws, casting metal	July 11, 1807
Nichols, Daniel	Herkimer, N. Y.	Auger, mining	Mar. 1, 1809
Nicholson, Jno.	Boston, Mass.	Flyer for spinning cotton	April 28, 1810
Nichols, Perkins	Fitchburg, Mass.	Carding, spinning and roping machine	May 18, 1811
Newton, Martin	Milford, Pa.	Tin plate making	Sept. 28, 1812
Norton, Theo., and Geo. Biddis	Philadelphia Do	Suspenders	April 15, 1813
Noble, David	Southington, Ct.	Button moulds, manufacturing wooden	May 9, 1814
Nelson, Martin	Essex county, Mass.	Nails, manufacturing	Oct. 17, 1814
Norton, Jno.	Baltimore	Nails, machine for cutting	June 13, 1816
Newhall, Tim., jr.	Lynn, Mass.	Ruling double machine	Sept. 7, 1816
Noble, Roswell	Oneida county, N.Y.	Nails, cutting and heading	Dec. 17, 1816
Newhall, Tim., jr.	Do	Do	Dec. 26, 1816
Northrop, Isaac	Do	Do	Jan. 7, 1817

Noyes, David E.	Philadelphia, Pa.	Combs, machine for twinning horn and tortoise shell	Sept. 6, 1817
Nash, Sylvester	Harper's Ferry	Gun barrels, turning	April 11, 1818
North, Lymes	Otsego, N. Y.	Combs, metal hair	May 28, 1818
Noble, Roswell	Baltimore	Springs, nails, and brads, manufacturing	May 17, 1819
Noyes, David E.	Philadelphia	Comb cutting machine	Oct. 14, 1819
Northrop, M. W., and R. R. Dillon	Newton, N. J.	Cloth, fulling	Dec. 4, 1823
Norcross, Leonard	Livmore, Me.	Nail machine, wrought	May 18, 1824
Nones, Jos. B.	Philadelphia, Pa.	Nankeen, making yellow and buff colors	April 28, 1825
Newton, S.	Washington, D C.	Spectacles and single eye-glasses	Dec. 22, 1827
Nelson, Wm.	Batavia, N. Y.	Wringing dyes, &c. out of cloths, called the spiral cur-	Nov. 13, 1828
Norris, M. R., and L. Phillips	Covington, N. J.	vilinear compressor	
Osborn, Levi	Fairchild	Cloth napping	Mar. 22, 1829
Owings, Jno.	Baltimore	Fulling mill, double crank	July 12, 1804
Do	Do	Flax and hemp, preparing, for spinning	March 5, 1812
Orth, C.H., and Fred. Strohn	Steubenville, O.	Roller, impressed, for making knives, forks, &c.	Jan. 25, 1814
Osborne, Horace, and Wm. L. Fraser	Westmoreland, N. Y.	Cloth, machine for shearing	Oct. 11, 1814
Olney, James	Boston, Mass.	Cloth, shearing	April 25, 1816
Otis, Melville	Poughkeepsie, N. Y.	Cloth, teasing	Mar. 29, 1817
Oakley, Geo. P.	Morgan, Mass.	Nails, manufacturing	Dec. 31, 1817
Odiorne, Thomas	Russellville, Ky.	Box, sample	Nov. 25, 1818
Orndorff, Jno.	Philadelphia, Pa.	Nail machine, improvement on Reed's	April 3, 1829
Parkinson, George	Do	Wool, spinning	Nov. 10, 1829
Pollard, Wm.	Pennsylvania	Flax and hemp, spinning	Mar. 17, 1791
Perkins, Thomas	Boston, Mass.	Cotton, spinning	Dec. 30, 1791
Perkins, Jacob	Rhode Island	Nail machine	Feb. 7, 1794
Pittman, John		Nail cutting	Jan. 16, 1795
		Cordage, manufacturing	May 25, 1795

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.'
Person, Josiah G.	New York	Nail cutting	Mar. 23, 1794
Parkinson, George	Pennsylvania	Cordage, manufacturing	June 16, 1794
Perkins, Jacob	Connecticut	Nail machine	Feb. 14, 1799
Pratt, Phineas	Rhode Island	Comb making machine	April 12, 1799
Pittman, John		Rope yarn, spinning	Dec. 24, 1899
Pettibone, Daniel, Ezra			
Chapman, and Josiah	Albany, N. Y.	Steel, welding, to iron	Dec. 22, 1802
Nicholas	Roxbury, Ct.	Cast steel to iron, welding	Mar. 22, 1806
Pettibone, Daniel			
Pitkin, Joseph, & Tim.	Hartford, Ct.	Hats, machine for planking, and making cloth without	
Kimball		yarn	
Pierson, Jer. H.	Ramapo Works, N. Y.	Hoop and sheet iron, manufacturing	Oct. 19, 1807
Pierson, Isaac	New York	Mill, rolling and slitting	Dec. 24, 1807
Pratt, Phineas	Saybrook, Ct.	Combs, machine for making	Dec. 24, 1807
Pittin, Roswell	East Hartford, Ct.	Hats, manufacturing without bowing	Mar. 5, 1808
Parmerlea, Marcus B.	Newtown, Ct.	Ratchet wheel	April 23, 1808
Parke, James P.	Philadelphia, Pa.	Bells for fire engines	Sept. 21, 1808
Pope, John W.		Shot, manufacturing	Dec. 19, 1808
Perkins, Jacob	Boston, Mass.	Nails and brads, cutting	July 17, 1810
Parsons, Eli	Bristol, Ct.	Comb, called the socket hair comb	July 17, 1810
Parsons, Seth	Parsonfield, Mass.	Knife, currier's	Aug. 16, 1810
Pond, William	Wrentham, Mass.	Straw, wove plait	Oct. 25, 1810
Palmerler, Herman	Shoreham, Vt.	Carding machine	Feb. 28, 1811
Perry, Nathaniel	Boston, Mass.	Looms	May 25, 1811

Phelps, John	Manlius, N. Y.	Do	Aug. 27, 1812
Partain, John B.	New York	Snuff cutter or grater	Nov. 30, 1812
Peabody, William H.	Woodbury, Ct.	Wheel heads	Dec. 14, 1812
Perkins, Jacob	Newburyport, Mass.	Screw shank machine	Mar. 23, 1813
Do	Do	Locks for bank vaults	Mar. 23, 1813
Pettibone, Dan.	Philadelphia, Pa.	Plane irons, scythes, &c.	May 6, 1813
Pettie, Simeon	Foxborough, Mass.	Looms, beam for	June 15, 1813
Perkins, Jacob	Newburyport, Mass.	Spoons, making	June 29, 1813
Pie, William	New York	Locks,	Aug. 5, 1813
Powell, Thomas	Do	Cylinder, multiplying hollow	Aug. 3, 1813
Pettibone, Daniel	Philadelphia, Pa.	Guns, pistols, &c., twisted screw auger for boring	Feb. 12, 1814
Platt, Charles & Daniel	Sharon, Ct.	Files, cutting	Mar. 7, 1814
Pulsifer, John	Newbury, Mass.	Combs, lanterns, and machine for slitting horn, &c.	May 24, 1814
Porter, Aaron, James			
Mead, and Jas. Sted-			
wall			
Phillips, Chas., jr.	Queensbury, N. Y.	Stocking, machine for knitting	July 31, 1815
Perkins, Jacob	Sackett's Harbor, N. Y.	Nails, manufacturing	Oct. 21, 1815
	Newburyport, Mass.	Nail cutter, improvement in his cylindrical, of January	
Price, William	Pennsylvania	16, 1815	Nov. 1, 1815
Do	Pittsburg, Pa.	Glass making	Mar. 4, 1816
Paddeford, Peter	Lyman, N. H.	Glass composition	April 30, 1816
Parmelee, Samuel	Saybrook, Ct.	Wool and cotton spinning	May 18, 1816
Porter, Aaron	Queensbury, N. Y.	Comb machine, shell and horn	July 15, 1816
Perkins, Jacob, & Thos.		Loom, stocking	Aug. 22, 1816
Gilpin	Philadelphia, Pa.		
Pitman, John	Medford, Mass.	Paper water marks	Dec. 18, 1816
Parsons, Bishop A.	New York	Yarn spinner, effervescent for rope	Mar. 14, 1817
Pettibone, Daniel	Philadelphia, Pa.	Cloth, napping, woollen	April 16, 1817
Pye, William	New York	Comb cutting machine	April 10, 1818
Do	Do	Locks, union	April 28, 1818
			April 28, 1818

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Pettibone, Daniel	Philadelphia, Pa.	Combs, manufacturing	Aug. 11, 1818
Prescott, Levi and Jed.	Pittsburgh, Pa.	Cloth, napping	Nov. 5, 1818
Parsons, Seth	Hosack, N. Y.	Cloth, shearing	Mar. 2, 1819
Peck, Seth	Southington, Ct.	Ware, machine for making tin	April 23, 1819
Pettibone, Daniel	Boston, Mass.	Cast steel to iron, welding	Aug. 21, 1819
Do	Philadelphia, Pa.	Balls and shot of lead, casting	Nov. 10, 1819
Pignatelle, John B.	New York	Paper, machine for making	Dec. 2, 1819
Pierson, Jer. H., and J. H. Simmons	Hampstead, N. Y.	Weaving, art of	Dec. 31, 1819
Pool, Daniel	Zanesville, O.	Nail machine	Mar. 22, 1820
Pye, William	New York	Andirons	Nov. 16, 1821
Prouty, Russel	Spencer, Mass.	Wire, drawing card and other	Jan. 19, 1822
Prince, William A.	New York	Carpeting, irgrain	Feb. 12, 1823
Patterson, A., and F.	Delaware, co., N. Y.	Wool and cotton, roping and spinning	Sept. 29, 1824
Burdock	New York	Wool and cotton spinner	Oct. 5, 1824
Price, Francis	Philadelphia, Pa.	Spinner, family	Dec. 24, 1824
Pool, D., & A. Copeland	New York	Comb teeth, machine for sawing	April 20, 1825
Pratt, Philo	Do	Pans of stone ware, milk	Sept. 9, 1825
Perry, Sanford L.	Do	Cutting ivory teeth	Sept. 9, 1825
Pratt, Philo	Foxborough, Mass.	Bonnets, pressing straw	Sept. 14, 1825
Pettee, Simon	Meriden, Ct.	Vice used in cutting combs	Nov. 22, 1825
Pratt, Philo	Littleton, N. H.	Knife, currying	Mar. 17, 1826
Palmer, Freeman	Grafton, Mass.	Composition applied before carding	Aug. 19, 1826
Parkhurst, Ziba	Pitt, Pa.	Commode knob, mode of fastening	Nov. 14, 1826

Patrick, William	Leverett, Mass.	Turning lathe	April 24, 1827
Petre, Michael	Womelsdoff, Pa.	Fur, machine for cutting	Dec. 20, 1827
Pratt, Linus, and F. Bush	Meriden, Ct.	Ivory, machine for junking	-
Pratt, Philo	Do	Combs, machine for graining	Feb. 9, 1828
Do	Do	Vice for slitting ivory	Feb. 12, 1828
Post, Calvin	Springport, N. Y.	Boilers, bending sheet iron for steam	Feb. 12, 1828
Post, James A.	Warwick town'p, N.Y.	Bobbin machine	Mar. 11, 1828
Penny, Edward	Adams, N. Y.	Spinner, domestic	April 23, 1828
Pennell, James, and Haber Maxon	Barbourville, Va.	Cotton picker	June 27, 1828
Peterson, George F.	New York	Types, machine for casting	Oct. 10, 1828
Perry, Luke N.	Worcester, Mass.	Drum, soldering, straightening factory	Oct. 13, 1828
Pond, Alison	Petersburg, Va.	Twine machine, Pond's cotton	Jan. 23, 1829
Pike, Samuel	Providence, R. I.	Combs, snuff boxes, &c., from raw or green hides	April 21, 1829
Peck, N., & D. Taylor	Fairfield co., Ct.	Cloth without spinning or weaving, manufacturing	June 11, 1829
Powers, Jona.	Lansingburg, N. Y.	Grid iron	June 27, 1829
Prindle, Lewis B., & T. Curtis	Newtown, Ct.	Combs, rubbing down and polishing	Aug. 10, 1829
Philips, Augustus	Marlborough, Ct.	Bit stocks, composition	Oct. 10, 1829
Patterson, James	Pittsburg, Pa.	Lock knob, spiral spring	Oct. 19, 1829
Pope, Stephen	New York	Steel, carbonated, from wrought iron	Nov. 20, 1829
Putnam, Elijah	Gardiner, Me.	Lathe, turning	Dec. 9, 1829
Robotham, Richard	New York	Candles, manufacturing	June 2, 1794
Rentgin, Clem.	Pennsylvania	Bolts and bars, forging	Nov. 17, 1796
Reid, Nathan	Massachusetts	Nails, cutting and heading	Jan. 28, 1798
Reed, Jesse	Do	Nails from heated rods	June 9, 1801
Robotham, Richard	New York	Paper ruling machine	Oct. 10, 1801
Reed, Jesse	Massachusetts	Nails, rolling iron for	July 15, 1801
Ruggles, Lazarus	-	Nail machine	Oct. 18, 1803

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Rogers, Sam., & Melville Otis	Massachusetts Providence, R. I. Boston, Mass.	Nails, cutting and rolling iron Buttons, manufacturing Nail cutting and heading machine	Dec. 7, 1803 Mar. 24, 1804 Feb. 22, 1807
Robinson, George W.	Jlymouth, Mass.	Nail heading machine	Dec. 15, 1807
Reed, Jesse	Newburgh, N. Y.	Whips, twisted whale bone	April 25, 1808
Rogers, Samuel	New York	Oakum, making	April 26, 1808
Reeve, Joseph	Kingston, Mass.	Nails, wheel for cutting and heading	April 15, 1809
Rider, Daniel	Providence, R. I. Chester co., Pa.	Lathe, securing button in a Lathe, turning	June 27, 1809 July 10, 1809
Reed, Jesse	Danvers, Mass.	Nail cutting machine	Mar. 8, 1810
Robinson, George W.	West Chester, Pa.	Bolts, rolling iron for ships	June 27, 1810
Ross, William	Newburyport, Mass.	Hinges, cast, or making them of metal in a fluid state	July 3, 1810
Reid, Briggs R.	Boston, Mass.	Threads and quills of the shuttle for weaving, winding the	
Rentgen, Clem.	Salem, Mass.	Nails, cutting and heading	Aug. 16, 1810
Rogers, George A.	Joppa x Roads, Md.	Shovels, swagging and setting	Aug. 18, 1810
Ruggles, Levi	Kingston, Mass.	Nails, cutting and heading	Aug. 31, 1810
Reid, Briggs R.	Berkshire, N. Y.	Bolts, machine for cutting off the ends of	Sept. 16, 1810
Reid, Upton	Downingtown, Pa.	Shovels, sacket and sand	May 8, 1811
Reed, Jesse	Kingston, Mass.	Nails, cutting and heading	July 23, 1811
Rewey, John	Brookfield, N. Y.	Spinner, pleasant	Aug. 14, 1811
Righter, Jonathan	Philadelphia, Pa.		Sept. 10, 1811
Reed, Jesse	Maine		
Read, Daniel			
Reeve, Mark, and Rd.			
Reeve			
Rogers, Rd. C.			
			Nov. 14, 1811
			Nov. 29, 1811

Raymond, Ephraim	Norton, Mass.	Cotton, wool, picking machine	Jan. 18, 1812
Rood, Job	Canterbury, Ct.	Weaving	Jan. 23, 1812
Reeve, Mark and Rd.	Burlington, N. J.	Nail manufacturing	Feb. 3, 1812
Robinson, George W.	New Haven, Ct.	Moulds for casting metal buttons	May 14, 1811
Rogers, Richard C.	Maine	Loom, improvement in	Nov. 29, 1811
Do	Do	Do in Rogers'	June 23, 1812
Reeve, Mark, and Rd.	Burlington, N. J.	Hinge, elliptical	Oct. 31, 1812
Do	Do	Nail machine	Oct. 31, 1812
Robinson, George W.	Attleborough, Mass.	Nail, brass, copper, and composition, manufacturing	Mar. 17, 1813
Reeve, Mark and Rd.	Philadelphia, Pa.	Nails, machine for cutting and heading	April 16, 1813
Robinson, Elisha	Augusta, Mass.	Loom	July 24, 1813
Reeve, Mark, and Rd.	Philadelphia, Pa.	Nail machine, improvement Reeve's, patented February 3, 1812, October 31, 1812, and April 16, 1813	Sept. 28, 1813
Rogers, Samuel	Bridgewater, Mass.	Nail heading machine	Jan. 26, 1814
Russel, Emery	Long Meadows, Mass.	Spinning and quilling wheels with heads	April 18, 1814
Do	Do	Wheel heads	April 18, 1814
Ridgway, James	Groton, Mass.	Spoons, making	Sept. 22, 1814
Rogers, Samuel	Bridgewater, Mass.	Nail cutting and heading	Oct. 21, 1814
Reed, Jesse	Hanover, Mass.	Nail cutting and heading machine	Oct. 22, 1814
Rogers, Benj.	Beaver Creek, O.	Looms, temples for	Nov. 24, 1814
Reed, Jesse	Hanover, Mass.	Nail machine	Dec. 16, 1814
Randolph, David M.	Richmond, Va.	Candles, making mould	Aug. 1, 1815
Russell, John	Brooke, Va.	Saw, setting and using the teeth of	Oct. 14, 1815
Robinson, Elihu	Augusta, Mass.	Spool frame	Mar. 6, 1816
Russell, Fred. A.	Georgetown, D. C.	Nails, manufacturing	Mar. 14, 1816
Reich, John, and Ed.	Philadelphia, Pa.	Paper, mark of opacity in	May 11, 1816
Starr	Montgomery, Pa.	Pulp in paper vats, heating	May 22, 1816
Robeson, Joseph	Philadelphia	Nails, manufacturing	June 26, 1816
Reeve, Mark	Do	Nail manufacturing	June 27, 1816
Reed, Jesse	Hanover, Mass.	Tacks, machine for making	Aug. 1, 1816

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Richardson, Jacob	Scipio, N. Y.	Wool and cotton, spinning	Oct. 16, 1816
Remington, Elihael	Frankfort, N. Y.	Cloth shearing machine	Aug. 13, 1817
Rogers, Samuel, and	Boston, Mass.	Tack and brad machine	Oct. 3, 1817
Thomas Blanchard	Baltimore, Md.	Hats, stiffening for water proof	Nov. 28, 1817
Ruckles, William	Baltimore	Hats, stiffening	Feb. 7, 1818
Raymond, A. & G. V.	Bridgewater, Mass.	Lathe for turning rollers, for rolling iron, copper, &c.	June 24, 1818
Rogers, Samuel	Do	Mill for sheet iron, and rolling mill	June 24, 1818
Do	Attleborough, Mass.	Locks, from being picked, securing	July 17, 1818
Robinson, George W.	Norfolk, Va.	Anti-friction bush, for sheaves in blocks	Feb. 6, 1819
Rudder, James	Glooucester co., Pa.	Iron bars, hollowing out	Dec. 24, 1819
Rowand, Thomas	Baltimore, Md.	Lathe, for stiffening hats	Nov. 20, 1820
Raymond, Henry	Washington, D. C.	Gun trucks, cutting	Aug. 6, 1821
Rose, Robert	Patterson, N. J.	Cloth, manufacturing sail	Aug. 10, 1821
Richards, James	Attleborough, Mass.	Buttons, finishing glass	Aug. 19, 1822
Richards, Spencer	Belfast, Me.	Locks, spiral spring	Mar. 31, 1823
Read, Nathan	New Bedford, Mass.	Fur blower	Mar. 9, 1824
Rotch, William B.	Whitestown, N. Y.	Spinning, substitute for the flyer in	Aug. 28, 1824
Rogers, O. G. and M.	Philadelphia, Pa.	Saw for cutting veneer	Oct. 6, 1824
Richardson, R. B.	Sturbridge, Mass.	Carding machine	Mar. 12, 1825
Rider, Nathaniel	Marshfield, Mass.	Iron slitting	April 21, 1825
Reed, Jesse	Do	Nails and tacks, feeding apparatus for	April 21, 1825
Do	Do	Nails, machine for cutting and heading	April 21, 1825
Ross, William	New Orleans	Brand for flower barrels	Dec. 2, 1825
Robinson, Geo. W.	Providence, R. I.	Spinning wool and cotton by hand	Mar. 16, 1826

Robeson, A.	New Bedford, Mass.	Sept. 8, 1826
Reminton, Nathaniel H.	Geneva, N. Y.	April 21, 1827
Rowen, John H., and H. Wise	Fredericktown, Pa.	May 10, 1827
Robinson, John	Pittsburg, Pa.	Oct. 6, 1827
Richards, Joseph	Braintree, Mass.	Feb. 20, 1828
Robinson, Willard	Arlington, Mass.	Mar. 3, 1829
Reynolds, Samuel G.	Bristol, R. I.	April 13, 1829
Risley, Harlow	Glastonbury, Ct.	May 1, 1829
Raymond, Henry	New York	June 27, 1829
Russell, James	Do	Oct. 10, 1829
Ruggles, Henry	Do	Nov. 24, 1829
Root, Orlando	Montgomery co., N.Y.	Dec. 19, 1829
Sampson, Joseph	Boston, Mass.	Aug. 6, 1790
Spence, James	New York	Feb. 16, 1797
Seymour, Benj.	Massachusetts	June 26, 1797
Sampson, Joseph S.	Do	June 26, 1797
Do	Do	June 26, 1797
Shotwell, John	New Jersey	Mar. 16, 1799
Sanford, Isaac	Connecticut	Mar. 27, 1799
Shotwell, William	New Jersey	June 24, 1800
Standing, Benjamin	New Hampshire	June 28, 1803
Stanley, Liberty	Massachusetts	June 25, 1803
Stowell, Abel	Do	Feb. 14, 1803
Spencer, Asa	New London, Ct.	June 4, 1804
Smith, William	New York	May 9, 1805
Share, Joseph	Baltimore, Md.	Oct. 28, 1805
Swift, Beriah	Washington, N. Y.	May 25, 1806
Smith, Simon	New Haven, Ct.	Oct. 23, 1804
Stickney, John	Baltimore, Md.	May 4, 1805
Shee, Parke	Philadelphia, Pa.	Feb. 7, 1807

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Stansbury, Abm. O.	New York	Lock, Egyptian	Feb. 11, 1807
Sester, Eb.	Little Falls	Trundle heads, mode for cutting	Feb. 12, 1807
Sellers, J., & A. Bartle	Alexandria	Rope making	May 5, 1807
Smith, Eleazer	Franklin, Mass.	Straw plats for bonnets, machine for cleaning	Mar. 30, 1808
Stowell, Eb.	Worcester, Mass.	Wool shearing machine	April 26, 1808
Stewart, Simpson, and Eb. Hovey, and Jas. Henderson	Pittstown, N. Y.	Cloth, shearing Wheel, spinning Candle dipping machine Silk dying machine Wool, carding Cable laying, and spinning ropes of any size Combs, hair Screw, cutting of wood Combs, plating horn with tortoise shell Fur cutting machine Cloth, machine for shearing Do Do	June 21, 1808 Aug. 6, 1808 Jan. 6, 1809 Mar. 22, 1809 June 14, 1809 June 24, 1809 July 6, 1809 July 19, 1809 Jan. 8, 1810 May 9, 1810 May 9, 1810 May 24, 1810
Sely, Ob.	New York	-	-
Stansbury, Samuel	West Cambridge, Mass.	-	-
Stearns, Abner	Philadelphia, Pa.	-	-
Smith, Daniel	Baltimore, Md.	-	-
Shultz, William	Southington, Ct.	-	-
Stanley, Timig	Worcester, Mass.	-	-
Stowell, Abel	Baltimore, Md.	-	-
Spies, John P.	Danbury, Ct.	-	-
Sprague, Eleazer	Do	-	-
Do	New York	-	-
Swift, Beriah	Durham, N. H.	Linen, machine for smoothing	July 17, 1810
Smith, William P., & Jacob Odell	Georgetown, Ky.	Auger, common screw	Dec. 11, 1810
Steison, Oliver, & William Sebree	Roxbury, Mass.	Nail and brad cutting machine	Feb. 8, 1811

Swain, Israel	Haverhill, N. H.	Mar. 27, 1811	Mar. 27, 1811
Stillman, William	Westerly, R. I.	June 11, 1811	June 11, 1811
Sizer, Jona.	New London, Ct.	Nov. 6, 1811	Nov. 6, 1811
Shepard, Cyrus	Philadelphia	April 27, 1812	April 27, 1812
Shaw, James	Herkimer, N. Y.	Aug. 27, 1812	Aug. 27, 1812
Spencer, Asa	New London, Ct.	Feb. 7, 1812	Feb. 7, 1812
Sizer, Jona. & Rosanna	Do	Oct. 21, 1812	Oct. 21, 1812
	Franklin, Pa.	Nov. 16, 1812	Nov. 16, 1812
Somner, John	Worcester, Mass.	Feb. 4, 1813	Feb. 4, 1813
Stowell, Abel	Ramapo Cove, N. Y.	May 4, 1813	May 4, 1813
Sloot, Jac.	Flushing, N. Y.	May 10, 1813	May 10, 1813
Staples, John J.	New York	May 28, 1813	May 28, 1813
Smith, George	Worcester, Mass.	July 15, 1813	July 15, 1813
Stowell, Abel	New York		
Shotwell, William, &	Middlebury, Vt.		
Arthur Kinder	Hudson, N. Y.		
Stowell, Eb.	New York		
Steele, Her.	Boston, Mass.		
Shotwell, William, &	Cheshire, N. H.		
Arthur Kimball	New York		
Do	Do		
Sugden, Robert	New York		
Steward, Stephen	Brattleborough, Vt.		
Shallcross, Stephen	Paris, N. Y.		
Stearns, Daniel	Providence, R. I.		
Smith, Eben.	Do		
Sanford, Isaac	Wythe c. h., Va.		
Spinkle, Jac.	Washington, N. Y.		
Swift, Beriah	Bristol, Pa.		
Siddall, Thomas			
Sherwood, Aug. C.			
		Winding spools and bobbins for weaving	Winding spools and bobbins for weaving

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Smith, Brown, & Stewart, Charles	Truxton, N. Y.	Wheel head, improved linen	Dec. 8, 1814
Squire, William	New York	Loom, warm suspender	Jan. 17, 1815
Stowell, Eb.	Middlebury, Vt.	Weaving, spooling, and winding	Feb. 28, 1815
Siddall, Thomas	Germantown, Pa.	Warping machine	Mar. 27, 1815
Stillman, William	Westerly, R. I.	Cloth, shears for	April 28, 1815
Stanger, Jac., and D. H. Miller	Philadelphia, Pa.	Furnaces, glass	Aug. 18, 1815
Sedham, Henry	Troy, N. Y.	Nail heading machine	Sept. 6, 1815
Smith, Daniel A.	Townsend, Mass.	Temple, weavers', perpetual	Feb. 23, 1816
Speray, Eli	New Haven, Ct.	Combs, manufacturing	Mar. 28, 1816
Stanford, Elias B.	Newtown, Ct.	Wheel, spinning	April 11, 1816
Smith, John D.	Fredericktown, Md.	Cloth, shearing	May 24, 1816
Shepard, Cyres, and J. Thorp	Taunton, Mass.	Loom, upright power	July 25, 1816
Sprinkle, Jacob	Wythe, Va.	Cotton and wool, machine for spinning	Aug. 28, 1816
Shilliday, Caleb, and Geo. McCaston	Shelbyville, Ky.	Spinning and reeling machine	Oct. 24, 1816
Starr, Eli, and Nathan Couch	Sullivan town'p, N.Y.	Cloth, raising nap on woollen	Mar. 20, 1817
Strowhuyer, G., and Fred. Sauvay	Cincinnati, O.	Hand ruling machine	Sept. 1, 1817
Sargent, Charles L.	Suffolk, Mass.	Cordage	Oct. 4, 1817
Stewart, Adam	Baltimore	Saw belt or band	July 5, 1817
Do	Do	Saw, horizontal, vertical, or radial	July 5, 1817

Stillman, William	Westerly, R. I.	Cloth shearing machine	Jan. 17, 1818
Sullivan, John L.	Boston, Mass.	Wheel regulator and span gear	Feb. 28, 1818
Stearns, Abm., and W.	West Cambridge, Mass.	Silk, finishing and dyeing	Jan. 30, 1818
Barrett	Boston, Mass.	Do do	Sept. 6, 1818
Sullivan, John L.	Do	Wheel regulator and span gear	Feb. 28, 1818
Swain, William W.	New Bedford, Mass.	Moulding sperm candles	Jan. 14, 1820
Stedman, Simeon	Hartford, Ct.	Ladles, bent wood handle and socket, for white metal	July 25, 1818
Smith, Abel	Zanesville, O.	Nails, manufacturing	Mar. 22, 1820
Simmons, Benjamin	Paris, N. Y.	Spinning wheel, linen	July 20, 1820
Sellers, Nathan	Philadelphia	Sifters, wire rolling	Aug. 16, 1820
Shepard, Silas, and C.	Taunton, Mass.	Cotton roping machine	Mar. 23, 1821
Dean	Springfield, N. Y.	Spinning wheel head, linen	April 19, 1821
Stewart, Jared S.	Whitestown, N. Y.	Yarn, spinning woolen	Mar. 13, 1822
Sharp, John	Philadelphia, Pa.	Holes, machine for punching	April 2, 1822
Sarchet, John	Sandwich, N. H.	Fender for fireplaces	April 19, 1822
Skinner, Elijah	Albany, N. Y.	Steel, making cast or wrought	Oct. 30, 1822
Spaford, Horatio G.	Do	Iron or steel, making	Oct. 30, 1822
Do	Troy, N. Y.	Tools, making edge	Dec. 19, 1822
Sharrock, John T.	Winchester, Va.	Cotton, manufacturing	June 20, 1823
Swift, Beriah	Washington, N. Y.	Cloth, shearing	Feb. 7, 1824
Schaller, Charles F.	Lewisburg, Pa.	Spinning wheel for wool	Feb. 28, 1824
Stevens, Martin	New Haven, Ct.	Forks, four tined dung	April 16, 1824
Smith, Thomas B.	Troy, N. Y.	Bedsteads, right and left screws for	Oct. 11, 1824
Slater, Sam'l.	Middletown, Ct.	Spinner, vertical	April 4, 1825
Sutton, Noah	New York	Iron, splicing or flaring	April 28, 1825
Seely, Holly	Unadilla, N. Y.	Rivet and bolt cutter, lever purchase	May 12, 1825
Schofield, Joseph,	Stonington, Ct.	Loom	Sept. 9, 1825
Stewart, Adam	Boston, Mass.	Saw, compound rotary	Sept. 29, 1825
Stillman, Orsemas M.	Brookfield, N. Y.	Temples for weaving	Jan. 30, 1826

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS, OR DISCOVERIES.	WHEN ISSUED.
Schater, Adam	Oxford township, Pa.	Brooms, hickory	Feb. 15, 1826
Schrirer, John	Charleston, S. C.	Gun stocks, crooking	April 12, 1826
Schreiner, J. H.	Philadelphia, Pa.	Auger	Aug. 17, 1826
Schreiner, Jos. H.	Philadelphia	Saw, setting	Aug. 19, 1826
Sleeper, William	Philadelphia	Umbrella and parasol, manufacturing	Nov. 22, 1826
Smith, Daniel M.	Warwick, Mass.	Plane, revolving timber	Dec. 28, 1826
Smylie, Edmund	New York	Andirons, pedestal	Feb. 1, 1827
Smiley, Ed.	Do.	Repairing and finishing andirons	Feb. 22, 1827
Sweet, J. W., and W.	Berkshire, Mass.	Turning tenons for rake teeth	Mar. 5, 1827
Stedman	Dutchess co., N. Y.	Hatters cards or jacks, making	Mar. 15, 1827
Seely, Joseph C.	Pickaway town, p, O.	Spindles, preventing friction on	July 6, 1827
Sholtz, J. G.	Derby, Ct.	Auger, screw	July 13, 1827
Smith, Judson	Boston, Mass.	Type caster, mechanical	Oct. 23, 1827
Sturdevant, John, and E. Starr	Hamilton, N. Y.	Turning rake and hoe handles	Dec. 3, 1827
Shepardson, Wm., & Josiah C. Sperry	Camden	Rake and hoe handles, machine for turning	Dec. 26, 1827
Sperry, Anson	Rotterdam, N. Y.	Plane, turner, sliding	Dec. 26, 1827
Sparrow, Jonathan	Portland, Me.	Sheaves, cast iron, for shipping	Dec. 29, 1827
Seymour, Francis	Plymouth, Mass.	Wool carding machine	April 5, 1828
Shannon, Henry A.	Columbia co., N. Y.	Lathe, wheelwright's felloe	May 5, 1828
Sitton, John, and Jas. A. Black	Pendleton	Saw frame, armed	June 18, 1828
Sperry, Nathaniel	Columbia, S. C.	Hatter's carding machine	Oct. 10, 1828
Sanford, Isaac	Nashville, Tenn.		
	Blockley, Pa.		

Sprague, Andrew, and Nich. A. Sprague	Fredonia, N. Y.	Paper, manufacturing	Oct. 31, 1828
Stephens, Abiel	Andover, Mass.	Wire cutting machine	Nov. 11, 1828
Strong, Charles A.	South Glastonbury, Ct.	Hammers for nails	Mar. 3, 1829
Sewell, J., and C.	Bath, Me.	Pattern for moulding spikes, bolts, &c.	Mar. 25, 1829
Saxton, Joseph	Philadelphia	Pencil cases, ever pointed	April 11, 1829
Sanderson, Isaac	Milton, Mass.	Paper machine, cylindrical	April 18, 1829
Stone, Amasa	Providence, R. I.	Loom, power	April 30, 1829
Shankland, Jas. W.	Summerfield, O.	Carding machine, wool	May 5, 1829
Swift, Beriah	Washington, N. Y.	Seythe, rife for sharpening	June 11, 1829
Skinner, Elijah	Sandwich, N. H.	Commode knob, glass	June 11, 1829
Shetter, George	York, Pa.	Auger, serpentine screw	Sept. 10, 1829
Sperry, Eli	New Haven, Ct.	Combs, making	Oct. 10, 1829
Sizer, Jona. 2d	New London, Ct.	Harpoon	Oct. 16, 1829
Slayton, Harvey	Lockport, N. Y.	Cloth, washing, fulling, threshing, making carpeting	Nov. 25, 1829
Tryon, Isaac	Connecticut	Combs, pointing and cutting	Feb. 22, 1798
Tibballs, Samuel, jr.	Tyringham, Mass.	Hats, manufacturing	Dec. 26, 1810
Toppan, E. C.	Essex co., Mass.	Sheaves for blocks	Feb. 12, 1810
Turner, Robert	Boston, Mass.	Nail machine, compound lever and parallel shaft	Nov. 25, 1811
Thorp, John	Providence, R. I.	Loom, hand and water	Mar. 28, 1812
Treadwell, Stephen	Reading, Ct.	Shearing machine	April 27, 1812
Turner, Robert	Boston, Mass.	Nail, cylindrical machine for brad and sprig	Feb. 21, 1814
Tiffany, William, and Phineas Allen	Otsego, N. Y.	Carding, drawing, and roping cotton	July 17, 1815
Taylor, John	Waltham, Mass.	Cloth, napping, teasing, or bushing	Oct. 28, 1815
Thorp, John, and Slas Shepard	Taunton, Mass.	Winder, socket bottom	Oct. 14, 1816
Tyler, Benja. and John Thomas, Thomas G.	Clarendon, N. H.	Seythe factory machine	Feb. 1, 1817
Tierman, Anthony	Philadelphia	Comb cutting machine	June 14, 1817
Thomas, Robert	New York	Dog power	April 27, 1818
	Richmond co., N.C.	Auger tube	May 29, 1819

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Tilge, Johan H.	Washington, D.C.	Hats, stiffening water proof	Sept. 23, 1819
Tomlinson, Daniel	Brookfield, Ct.	Knife, currying	July 6, 1820
Thorp, John	Providence, R. I.	Braiding machine	Aug. 10, 1821
Thompson, George	Philadelphia, Pa.	Nails	Sept. 5, 1821
Thayer, Joel F.	Boston, Mass.	Locks and latches for doors	May 18, 1822
Taylor, Joel	Danbury, Ct.	Hats, coloring	Nov. 20, 1823
Tuttle, Dinah H.	Williamson, N. Y.	Wheel head, accelerating	May 17, 1824
Taylor, Israel	Trenton, N. J.	Hats, dyeing	Aug. 27, 1824
Totten, Lafferd	Schoharie, N. Y.	Spinner, domestic wool	Nov. 13, 1824
Trott, Adolphus G.	New York	Nankeen, dying	Feb. 11, 1825
Tyler, R., & B. P. Uoston	Philadelphia, Pa.	Hats, pressing straw and Leghorn	May 23, 1826
Thompson, Elijah	Lowell, Mass.	Carding machine	June 2, 1826
Thorp, John	Providence, R. I.	Braiding machine	July 10, 1826
Tyler, H.	Utica, N. Y.	Bells	Oct. 20, 1826
Totten, Lafferd	Schoharie, N. Y.	Spinner, domestic	Nov. 22, 1826
Tillon, John	Newtown, Ct.	Carding machine	Sept. 8, 1827
Treadwell, Stephen	Weston, Ct.	Screws, machine for cutting wooden	May 22, 1828
Thatcher, Geo. L.	Brooklyn, N. Y.	Hat bodies by machinery, manufacturing	May 31, 1828
Thorpe, John	Providence, R. I.	Knot, shuttle for tying knots	Nov. 20, 1828
Do	Do	Cotton, spinning and twisting	Nov. 20, 1828
Do	Do	Yarn, spinning or filling, and slack twisted	Nov. 25, 1828
Do	Do	Spinner, ring groove	Dec. 31, 1828
Do	Do	Spinner cap	Jan. 23, 1829
Taber, Wm. B.	Canton, Mass.	Bobbin and flyer, Canton woollen	Jan. 30, 1829
Thorpe, John	Providence, R. I.	Roll yarn on the shuttle bobbin, forming	Mar. 20, 1829

			Spinner, improvement on Thorpe, (patented 25th Nov. 1828)	April 3, 1829
			Spinner, running cap	June 18, 1829
			Anchors, fagotting	Nov. 19, 1829
			Weaving narrow stuffs without a shuttle	Dec. 22, 1829
			Razor grinding, metallic	Aug. 10, 1804
			Cloths, plates for pressing woollen	Feb. 4, 1811
			Tobacco spinning, and turning of wheel	April 8, 1812
			Cotton, machine for inspecting	Oct. 29, 1818
			Banding, raised, and ornamental binding	Dec. 12, 1820
			Furs, wool, &c., cleaning	Feb. 21, 1821
			Throstle, bobbin or spool	Aug. 16, 1826
			Rolling iron	Jan. 3, 1827
			Suspenders, manufacturing	Feb. 22, 1827
			Hat bodies, by machinery	June 19, 1829
			Felt of wool, without spinning or weaving	June 27, 1829
			Loom	Nov. 17, 1796
			Nail cutting	Nov. 19, 1796
			Cards for wool	June 5, 1797
			Screw cutting machine	Dec. 14, 1798
			Rope making	June 26, 1799
			Block making machine	April 1, 1802
			Nail cutting machine	July 6, 1802
			Nails, heading and cutting	July 6, 1802
			Tin, sheet, mode of opening	April 14, 1804
			Type casting machine	Aug. 28, 1805
			Suspenders	Sept. 18, 1804
			Nails, cutting and heading	Nov. 30, 1807
			Hats, caps, &c., application, of bark for	April 17, 1807
Do			Massachusetts	
Do			Hartford, Ct.	
Do			New York	
Wilkinson, David			Hudson, N.Y.	
Wiggleworth, Michael			Hallowell, Me.	
Whiting, Eben.				
West, Edward				
Do				
Whittemore, Amos				
Do				
Do				
Wilkinson, David				
Wiggleworth, Michael				
Whiting, Calvin, and				
Eli Parsons				
Wing, William				
Webb, Orange				
Willard, Simon				
Whipple, Sylvester G.				

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Webb, Orange	New York	Suspender straps	Oct. 14, 1807
Wilmot, Samuel, jun.	New Haven, Ct.	Nail manufacturing	April 21, 1809
Walworth, Joseph	New York	Nails, iron, brass, and composition, casting	Nov. 22, 1809
White, Josiah	Philadelphia, Pa.	Iron, moulding and rolling	Mar. 14, 1810
Williams, David, 3d	Saybrook, Ct.	Combs, ivory, manufacturing	Mar. 28, 1810
Webster, Alpheus	Green co., N. Y.	Flax, &c., spinning	Mar. 31, 1810
Wilmarth, Ezra	Romney, Mass.	Cloth, shearing	Feb. 28, 1811
Witherle, Joshua	Boston, Mass.	Fur from peltry, cutting	May 28, 1811
Wolcott, Benjamin	Danbury, Ohio	Suspenders, double spring	May 29, 1811
Walton, Azariah	Keene, N. H.	Flyers for spinning cotton yarn	Jan. 6, 1812
White, Josiah	Columbia, Pa.	Nail cutting and heading machine	Jan. 11, 1812
White, Josiah	Philadelphia, Pa.	Rolling machine, for reducing metal to bars or rods, for making wire round or square	May 15, 1812
White, Samuel G.	Haverhill, Mass.	Files, rasps, &c., machine for cutting	July 11, 1812
Wadsworth, William	Hartford, Ct.	Wire drawing machine	Oct. 6, 1812
Walden, J. T. & Thos.	New York	Wire drawing machine	Oct. 31, 1812
Webster, Alpheus	Green co., N. Y.	Spinner, linen	Dec. 21, 1812
Williamson, Peregrine	Baltimore, Md.	Shot and bullet machine	May 12, 1813
Ware, Alfred, jun.	Franklin, Mass.	Loom	June 18, 1813
Williams, Thomas R.	Newport, R. I.	Loom	July 3, 1813
Williams, Goliath	North Providence, R. I.	Beam, weavers'	Aug. 24, 1813
Werely, John	Albany, N. Y.	Hats, forming wool and rorums into bats for	Oct. 14, 1813
Whitney, Calvin	Dedham, Mass.	Loom, warping	Feb. 1, 1813
Wright, Harvey, and Orlestus Roberts	Bristol, Ct.	Wheel, spinning	Mar. 26, 1813

Wright, William	Brooklyn, N. Y.	Loom	Oct. 12, 1814
Witherle, Joshua	Boston, Mass.	Screws, by circular cutter, cutting	Feb. 9, 1815
Do	Do	Screws, machine for slitting and finishing the heads of	March 7, 1815
Waring, William, and			
Charles Phillips	Jefferson, N. Y.	Nails, manufacturing	Oct. 21, 1815
Webster, George	New York	Types, casting moveable	Feb. 28, 1816
Woodruff, Samuel H.,	Connecticut	Buttons, composition for wire-eyed	March 1, 1816
and Anson Matthews	Reading, Mass.	Hats, manufacturing cemented	May 24, 1816
Weston, Nathan	New York	Pulley blocks, moulding and casting sheaves of	June 12, 1816
Worrall, Henry	Do	Chair, eagle	June 14, 1816
Weaver, Wm. J.	Otsego, N. Y.	Reeds for weavers	July 3, 1816
Wilkinson, Jephthal A.	Patterson, N. J.	Sheaves, apparatus for moulding bushes or cogs for	July 15, 1816
Walworth, Thomas P.	Richmond, N. H.	Spinning machine	July 18, 1816
Wheeler, Zaccheus		Chair bottoms, table tops, &c.	Oct. 29, 1816
Wall, John	Philadelphia, Pa.	Colors, imprinting	Jan. 24, 1817
Wells, Lewis J. B.	Campbell co., Ky.	Wheel, spinning	Feb. 28, 1817
Wright, James	New York	Suspenders, buckles for	July 5, 1817
Webb, Orange	New Canaan, Ct.	Fetters for horses	Jan. 15, 1818
Watson, Joseph	Providence, R. I.	Temples, sliding	May 28, 1818
Waterman, John	New York	Loom	Aug. 27, 1818
Warren, Edmund	Milbury, Mass.	Barrels, turning gun	Dec. 19, 1818
Waters, Asa	Mendon, N. Y.	Wheel, spinning	Dec. 29, 1818
Wilson, Henry	Poughkeepsie, N. Y.	Brooms, machine for making	Feb. 3, 1819
Weed, S. H.	North Providence, R.I.	Lathe of the power loom	Aug. 30, 1819
Whitehead, John	Waterbury, Ct.	Gun stocks, turning	June 15, 1820
Woolworth, Azariah	Medley, Mass.	Cloth by steam rollers, dyeing	Aug. 31, 1820
Wright, Duncan	Portage, Ohio	Carding machine	May 2, 1821
Woodard, Joshua	Philadelphia	Planes, carpenters'	May 14, 1821
Wellord, R., & J. H. Dees	New York	Tongs, fire irons, &c.	June 8, 1821
Whittingham, Richard	Warwick, N. Y.	Cloth by steam, fulling	June 26, 1821
Winans, Ross			

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Whaley, Thomas	New York	Locks and bolts, sliding door	Nov. 2, 1821
Winning, William	Do	Reticules	Nov. 7, 1821
Walcott, Erastus	Newport, N. Y.	Yarn, cotton, making without the aid of twist	Dec. 11, 1821
Warren, Edmund	New York	Loom	Dec. 11, 1821
Wood, James C.	Philadelphia, Pa.	Cloth, &c., ornamenting	Dec. 14, 1821
Wells, Gurdan, & Philadelphia Wells	Weathersfield, Ct. Charlestown, V.a. Stratford, N. H. New York	Bonnets and hats, grass Chairs, nursing Rollers, covering for sizing Loom	Dec. 29, 1821 Mar. 13, 1822 April 13, 1822 May 1, 1822
Woods, Andrew	Waterbury, Ct.	Pipes, making leaden.	July 5, 1822
Williams, Everett	Philadelphia, Pa.	Pin machine	July 23, 1823
Warren, Edmund	New York	Paper ruling machine	Sept. 3, 1823
Wall, Richard	Hadley, Mass.	Lathe, turning	Mar. 30, 1824
Weston, Henry	Danbury, Ct.	Hats, machine for steaming and hardening	April 2, 1824
Wilcox, Richard	New York	Locks	April 20, 1824
White, Cotton, and A. Hill	Dedham, Mass.	Cotton rolls, machine for forming	June 25, 1824
Wildman, Niram	Do	Loom	June 25, 1824
Wilcox, Richard	Portsmouth, R. I.	Seythe, horse	July 3, 1824
Whiting, C. S. Lower, and C. Whiting	Lowville, N. Y.	Spinning machine, domestic	Sept. 3, 1824
Whiting, C. J. Goulding, and Wm. James Wadsworth, John A.	Franklin, Mass.	Roping cotton, slack thread, &c.	Nov. 17, 1824
Wood, Elias	Wrentham, Mass.	Spinning	Dec. 31, 1824
Whiting, Sidney			
White, Sidney			

Wood, James	Philadelphia, Pa.	Shovels and spades	Feb. 10, 1825
Weed, L. H.	New York	Brushes, brooms, &c., of grasses	Feb. 28, 1825
Wright, Leruel W.	Manchester, Eng.	Pin making	Mar. 12, 1825
Wilcox, Roswell	Columbus, O.	Loom	Mar. 21, 1825
Whitehead, Wm.	Patterson, N. J.	Cotton roving and wool machine.	April 11, 1825
Wilkinson, Job	New York	Napping cloth	May 12, 1825
Woolsey, Richard	Kortwright, N. Y.	Spinner, family and factory	May 13, 1825
Wheeler, J. R. & J. B.	Kingsbury, N. Y.	Spinner, improvement on Browne's vertical	May 26, 1825
Woodhouse, Joseph	Otsego, N. Y.	Paper, books, &c., cutting	May 30, 1825
Wiltsie, A. L., & Joel	Tioga, N. Y.	Spinning wool and cotton	June 28, 1825
Farnham	Baltimore	Plane irons	Sept. 9, 1825
Williamson, Per.	Whitehouse, Turner	Lock, mortice and door	Sept. 29, 1825
Whitehouse, Turner	Wheeler, J. R. & J. B.	Spinner, fancy	Mar. 3, 1826
Wheeler, J. R. & J. B.	Wilcox, Roswell	Loom	April 21, 1826
Waterhouse, Ez.	Waterhouse, Ez.	Picking oakum by machinery	April 24, 1826
Watt, J. F. A. Priest, and G. Freeman	Jefferson co., O.	Spinning machine, family	May 20, 1826
Whitehead, jr., Wm.	Patterson, N. J.	Roving or twisting roving of cotton	June 14, 1826
Wilde, Benj.	Utica, N. Y.	Suspenders	Aug. 19, 1826
Wheeler, J. R. & J. B.	Galway, N. Y.	Wool, roping and spinning	Aug. 28, 1826
Whitney, H., and E.	Cambridge, Mass.	Glass knobs for doors, &c.	Nov. 4, 1826
Robinson	Chester, N. Y.	Spinning and reeling wool and cotton	Nov. 14, 1826
Woodhull, Joseph	Colchester, Ct.	Irons for planes or jointers	Jan. 10, 1827
West, Charles E.	Newburgh, Vt.	Paper, finishing	Feb. 28, 1827
White, Ira, & L. Gale	Pomfield, N. Y.	Spinner, Browne's vertical	July 13, 1827
Wilson, Henry	Addison Town'p, O.	Wheel, tread	Dec. 22, 1827
Watson, Cornelius	Chester co., Pa.	Mule for spinning cotton	June 26, 1828
Walker, Thomas	Roxbury, Mass.	Mats from Manilla and other grass, manufacturing	Aug. 22, 1828

LIST OF PATENTS—FACTORY MACHINERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Waterman, R., & Geo. W. Annis -	Providence, R. I.	Paper on machines, manufacturing -	Aug. 30, 1828
Wheeler, John W.	Galway, N. Y.	Cotton and wool, spinning and roping -	Oct. 11, 1828
West, H. F., and A. K.	-	-	-
Stevens -	Richland, N. Y.	Hat bodies -	Oct. 29, 1828
Wright, Lemuel W.	London, Eng.	Screws, arranging machinery for making -	Dec. 6, 1828
Woodhull, Joseph	Rochester, N. Y.	Screw, zigzag -	Dec. 31, 1828
Wooster, David	China, N. Y.	Brushes, manufacturing -	Feb. 16, 1829
Wilson, John D.	New York -	Hats, stiffening -	Aug. 6, 1829
Wood, Reuben	Erin, N. Y.	Dying by steam -	Aug. 25, 1829
Wheeler, Joseph B.	Galway, N. Y.	Spinner, golden -	Dec. 30, 1829
Whitehouse, Turner	Boston, Mass.	Mortice and door locks -	Sept. 29, 1829
Young, Fred.	New York -	Nails, heading and cutting -	Aug. 23, 1800
Young, Nicholas	Pennsylvania -	Fur machine, hatters' -	May 14, 1802
Do	Do	Hair, pulling, from skins -	June 28, 1803
Yard, James M.	Trenton, N. J.	Candles, machine for manufacturing -	Dec. 4, 1821
Zacharie, Peter,	Maryland -	Nail and brad cutting -	May 4, 1796
Zaisler, James	Baltimore -	Candles of tallow and wax, making -	April 2, 1796
Zwislner, James	New York -	Candles, mould and dip -	July 1, 1814

LIST OF PATENTS—NAVIGATION.

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INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Architecture, naval	John Thomas	Washington, D. C.	April 14, 1825
Ark, safety	William Hollins	Baltimore, Md.	May 4, 1824
Bilge lever for supporting ships	John Thomas	New York	Nov. 6, 1826
Do ways	Do	Do	Oct. 10, 1829
Binnacle lights	Winslow Lewis	Boston, Mass.	June 24, 1808
Do	Joseph F. Smith	Baltimore, Md.	June 1, 1825
Blocks and wedges for raising vessels	John Thomas	Washington, D. C.	May 17, 1822
Do	James Evans	Charlestown, Mass.	Dec. 6, 1828
Blubber, mincing whale's	Benjamin Taber	Fair Haven, Mass.	Aug. 11, 1821
Do knife	William Ball	New York	April 25, 1822
Boat for descending rapid streams	Daniel Keller	Pennsylvania	Nov. 5, 1799
Do for ascending rivers	David Grieve	Massachusetts	Feb. 24, 1801
Do insubmersible	Ab. Dulrie Marentinne	Connecticut	Dec. 23, 1802
Do building	William Hopkins	Hartford, Ct.	May 13, 1803
Do anti-steam	William Wadsworth	Burlington, Ct.	July 17, 1806
Do flat bottomed, with moveable keel	Samuel Buel	New Bedford, Mass.	July 7, 1810
Do and vessels, constructing	Francis Rotch	Philadelphia, Pa.	Nov. 29, 1811
Do do do	Do	Do	Aug. 3, 1812
Do for rapids	Frederick W. Geissenheimer	New York	Jan. 14, 1814
Do rocking or lever	Bennet Lies	Do	June 20, 1815
Do worked by quadrupeds	David Porter	Washington, D. C.	Feb. 8, 1816
Do and sea vessels, building	William Annesley	New York	Sept. 12, 1816
Do for passing up rapids	Lemuel Thwing	Dedham, Mass.	Aug. 12, 1820
Do iron	Thomas I. Bond	Baltimore, Md.	Dec. 21, 1820

LIST OF PATENTS—NAVIGATION—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Boat for rivers	N. C. Dawson and A. Rucker	Pedlar's Mills, Va.	April 3, 1821
Do transporting on canals from one level to another	Robert P. Bell	New York	July 13, 1827
Do passing up and down elevations on canals	Robert Graves	Brooklyn, N. Y.	July 26, 1827
Do constructing	Thomas Thorpe	Washington, D. C.	Aug. 31, 1827
Do for canals	Benjamin Phillips	Philadelphia, Pa.	April 21, 1828
Do do	Benijah Williams	Mendon, N. Y.	Mar. 3, 1829
Do canal passage	Jacob Bronwell	Cincinnati, O.	June 23, 1829
Do for canals	Thomas W. Bakewell	Do	Aug. 25, 1829
Building vessels, &c.	Do	Do	Feb. 21, 1827
Bulk head, water tight, for steam boats	Ruggles Whiting	Louisville, Ky.	June 6, 1825
Buoy, life	William Flower	Philadelphia, Pa.	May 14, 1808
Centre board to increase the speed of vessels	Garrett Fountaine	Staten Island, N. Y.	Mar. 15, 1825
Chair, marine	Ab. Du Buc Marentile	New Jersey	Mar. 18, 1803
Compass, mariner's, fixing	Lemuel Langley	Gosport, Va.	June 23, 1828
Composition for bottoms of vessels	John Pratt	Middletown, Ct.	Jan. 14, 1809
Do	William Russell, jr.	New Bedford, Mass.	Nov. 8, 1819
Do	James Russell	Do	Jan. 29, 1820
Covering heads of nails, bolts, &c.	William Mellus	Dorchester, Mass.	Aug. 3, 1822
Dams, river, for the easy passage of fish up and down	Pat. McGrath	Philadelphia, Pa.	Oct. 10, 1829
Diving machine	Richard Tripe	Dover, N. H.	April 1, 1806
Do dress	Chauncey Hall	Connecticut	Dec. 24, 1810
Do mode of	Wm. Brookfield	Detroit, Michigan	July 17, 1820
Do suit	William C. Davidson and Daniel Clark	Pittsford, N. Y.	July 26, 1824

Dock, dry	floating	John Gardiner	Washington, D. C.	Dec. 3, 1802 ⁴
Do	do	William Rhodes	New York	May 16, 1808
Do	do	Samuel Rose	Do	June 15, 1812
Do	projecting	John Adamson	Boston, Mass.	Dec. 13, 1816 ¹
Do	dry, rotary	Moses Rogers	New York	Jan. 7, 1817 ¹
Do	do floating	Joseph Webb	Do	May 3, 1817 ¹
Do	do	Albert Brux	Augusta, Ga.	Nov. 6, 1818
Do	do floating	Ralph Bulkley	New York	Aug. 28, 1821
Do	do	Edward Covenhoven	Greenburg, N. Y.	Oct. 30, 1821
Do	do	Christian Bergh	New York	April 29, 1825
Do	do	Wm. R. Lowerie	Do	June 23, 1825
Do	do	Eph. Buck, H. Cheshire, R. Jerry, and A. Bayard	Boston, Mass.	July 11, 1825
Do	dry, fresh water	Levi H. Clarke and Lewis M. Wiss	New York	Nov. 22, 1825
Do	rail way	John Thomas	Do	Feb. 24, 1826
Do	dry	Alonson Place	Do	April 1, 1826
Do	buoyant	Maximin Isnard	Do	June 22, 1826
Do	carrying and lifting trunk	James Barron	Norfolk, Va.	Aug. 2, 1826
Do	dry, floating	John Floyd	Kittery, Me.	Aug. 17, 1826
Do	screw	John C. Ely	New York	Jan. 28, 1829
Do	dry.	Elias Selden	Haddam, Ct.	July 30, 1829
Do	screw	Elisha Turner	New York, Rochester	Oct. 10, 1829
Do	Dowelling bit, used in ship building	John Thomas	Washington, D. C.	April 2, 1825
Do	Excavator, floating	Harvey W. Campbell	Lockport, N. Y.	Jan. 22, 1828
Do	Fender for steam boats	E. C. Genet	New York	Sept. 9, 1825
Do	Ferry boat	Thomas Cohoon	Pittsfield, Mass.	June 25, 1813
Do	Fids for ships' masts	Benjamin Rotch	Bristol, Eng.	Dec. 10, 1823
Do	Fish, catching	Joseph Ellicott	Pennsylvania	May 25, 1795
Do	mode of carrying in warm weather	Nathaniel Robbins	New Jersey	Mar. 11, 1802

LIST OF PATENTS—NAVIGATION—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Fish vessel and nets Do catching, by floating wharves Do Do Do wear for Floating machine for supplying ships with fresh water Do vessels Floor, elastic, for propelling boats, &c. Friction, lessening, in canal boats Hearths, fire, for ships Heaving down vessels and raising weights Do do Hoisting machine Horse boat Do Do do machinery Do Do Do	James Wells, jr. A. Bailey Daniel Gordon Hawley Emerson John F. Randolph John Denny Oliver Phelps Peter Freeman John Lamb Stephen Colver John Crowninshield William Purden Moses Crafts Salmon Fuller David Dunham Moses Isaacs Barnabas Langdon & John C. Langdon John J. Williams Nathaniel J. Wyeth Benjamin Taylor Gilbert Livingston Josiah Beale Philander Hall James Wilse	Galloway, N. J. Havre de Grace, Md. Lower Chanceford, Pa. Hancock, New York Queen Ann co., Md. Lansing, N. Y. Morris co., N. J. Amboy, N. J. Connecticut Salem, Mass. Baltimore, Md. Troy, N. Y. Clarke co., Ind. New York Philadelphia, Pa. John C. Langdon John J. Williams Nathaniel J. Wyeth Benjamin Taylor Gilbert Livingston Josiah Beale Philander Hall James Wilse	Dec. 17, 1814 June 24, 1820 Mar. 27, 1824 Aug. 14, 1811 April 25, 1811 Oct. 3, 1822 Nov. 17, 1821 June 1, 1825 Mar. 18, 1820 Dec. 14, 1798 Oct. 19, 1827 Mar. 19, 1806 Feb. 13, 1809 Feb. 19, 1811 June 28, 1814 Mar. 17, 1818 Troy, N. Y. Georgetown, D. C. Cambridge, Mass. New York Do Alexandria, D. C. Fishkill, N. Y.
Ice breaking machine Do cutting Impelling boats on water or land Keels of vessels Do swinging Do false Do and kelsons of leeboard vessels			June 5, 1819 Mar. 2, 1813 Mar. 18, 1829 April 25, 1808 Oct. 22, 1803 Jan. 15, 1812 April 2, 1816 May 4, 1821

Lanyard's chain Lee board		Dover, N. H.	Feb. 6, 1823
Lights, glass, for ships		Cape May c. h., N. J.	April 10, 1811
Do do for decks of ships		Boston, Mass.	May 11, 1822
Log for ships		Lynn, Mass.	Mar. 26, 1825
26 Mud machine		Pennsylyania	May 27, 1799
Do		Baltimore, Md.	Nov. 24, 1791
Do		Connecticut	Dec. 14, 1798
Do		Massachusetts	July 13, 1802
Do		Do	May 4, 1803
Do		Baltimore, Md.	Feb. 21, 1807
Do		Providence, R. I.	June 16, 1809
Do		Baltimore, Md.	June 27, 1809
Do		Do	Dec. 13, 1816
Do		Do	Jan. 22, 1817
Do		Do	Mar. 28, 1818
Do		Providence, R. I.	April 12, 1819
Do		Georgetown, D. C.	Aug. 9, 1821
Do		J. Watchman and J. Bratt	Baltimore, Md.
Do		Samuel Collins	New York
Navigable mercantile house		Roger Haskell	Geneva, N. Y.
Navigating rivers in shoal waters		Michael Williams	Albany, N. Y.
Do		Joseph Godley	Alexandria, N. J.
Do		Ed. Clark	Philadelphia, Pa.
Do		Anth'y Hunn	Danville, Ky.
Do		James Renwick	New York
Do		John J. Giraud	Baltimore, Md.
Do		Adolph Heilbronn	New York
Navigation, improvement in	internal	Cornelius Seaman	Washington co., Md.
Do	do	John Orbison	Piqua, Ohio
Do	do		
Do	do		
Do	do		
Our head			
Do			

LIST OF PATENTS—NAVIGATION—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Oyster platform	John Freeland	New York	April 29, 1828
Paddles for boats	Richard Claiborne	Virginia	Feb. 23, 1802
chain, for boats	Azahel Pierson	Cumberland co., N. J.	Mar. 2, 1811
Do and chain wheels for boats	Robert R. Livingston	Clermont, N. Y.	June 13, 1812
Do folding boat	Eb. Jenks	Colebrook, Ct.	June 6, 1817
Do propelling ships	John L. Sullivan	Boston, Mass.	April 28, 1818
Do for wheels, gearing and ungearing of boats	B. S. Doxey	Baltimore, Md.	Feb. 9, 1821
Do water	William F. Kearsing	New York	Dec. 8, 1826
Do wheels	J. J. Giraud	Baltimore, Md.	Sept. 18, 1827
Do or flutter wheels of boats	Jacob Perkins	London, England	Nov. 30, 1829
Pedometer, sea	William Thornton	Washington, D. C.	Dec. 23, 1814
Perambulator, nautical	Bennett Lies	New York	June 20, 1815
Plane, inclined, for boats on canals	Amos Whittemore	Massachusetts	Nov. 19, 1796
Do	John Williams	Deerfield, Mass.	Mar. 23, 1804
Do	Ed. Clark	New York	June 27, 1825
Do	William Knight	Morristown, N. J.	Aug. 5, 1828
	Ephraim Morris	Bloomfield town'p, Pa.	Oct. 13, 1829
	John Thomas	Washington, D. C.	Dec. 2, 1822
	William Scarbrough	Darien, Ga.	May 19, 1824
	John Kendrick	Newton, Mass.	June 10, 1818
	Chris. Joselyn	New York	June 28, 1826
	James Joselyn	Do	May 3, 1828
	Henry Voight	Philadelphia, Pa.	Aug. 10, 1791
	James Runsey	Berkley co., Va.	Aug. 26, 1791
Planking vessels	-	-	-
Do	-	-	-
Ploughing, submarine	-	-	-
Plugs, machine for cutting, for waists and decks of ships	-	-	-
Do	do	-	-
Propelling boats by animal power	-	-	-
Do or vessels	-	-	-

Do	do by steam vessels	-	John Fitch	-	Philadelphia, Pa.	-	Aug. 26, 1791
Do	do boats	-	Abijah Babcock	-	New York	-	Dec. 2, 1793
Do	do by horse power &c., by steam	-	Benjamin Wynkoop	-	Philadelphia, Pa.	-	Sep. 13, 1794
Do	do	-	Daniel Keller	-	Pennsylvania	-	May 25, 1795
Do	vessels	-	William P. Sprague	-	Do	-	June 19, 1795
Do	boats	-	Jehosaphat Starr	-	Connecticut	-	April 28, 1797
Do	do	-	John Martin	-	New York	-	Nov. 21, 1797
Do	vessels	-	Charles Strondinger	-	New Jersey	-	June 2, 1798
Do	boats	-	Josiah Shackford	-	New York	-	Mar. 21, 1799
Do	do	-	William Bell	-	Pennsylvania	-	Nov. 24, 1803
Do	do	-	John Heavin	-	Montgomery co., Va.	-	April 17, 1806
Do	do	-	James A. Pearce	-	Louisville, Ky.	-	April 7, 1807
Do	do	-	B. Boyes, & Philémon Heaton, M.	-	Hartford, Ct.	-	
Do	do	-	Samuel Wadsworth	-	New York	-	
Do	apparatus for boats	-	Samuel Stilwell and Daniel T. Wandell	-	Do	-	
Do	boats, &c.	-	A. G. D. Tuthill	-	Otsego, N. Y.	-	
Do	and rowing boats	-	William Shaw	-	Philadelphia, Pa.	-	
Do	hydraulic boat against currents	-	William Shultz	-	Otsego, N. Y.	-	
Do	boats, working mills, &c.	-	William Shaw	-	Philadelphia, Pa.	-	
Do	do or vessels	-	Alexander Anderson	-	New York	-	
Do	do by levers and weights	-	John T. Schenck	-	Connellsburg, Pa.	-	
Do	ball proof vessels by steam applied under water	-	Thomas Gregg	-	New York	-	
Do	boats by animal power	-	Moses Rogers	-	New Jersey	-	
Do	do steam	-	Nich. J. Roosevelt	-	New York	-	
Do	do animal power	-	Moses Rogers	-	Montgomery, N. Y.	-	
Do	do	-	Gabriel Manny	-	Washington City, D.C.	-	
Do	do steam	-	William Tatham	-	New York	-	
Do	vessels in a calm	-	Stephen Rudd	-	June 14, 1816	-	
					Mar. 4, 1808	-	
					Mar. 15, 1808	-	
					June 3, 1808	-	
					Mar. 22, 1810	-	
					Feb. 19, 1812	-	
					May 28, 1812	-	
					June 5, 1812	-	
					Aug. 21, 1812	-	
					Oct. 23, 1812	-	
					Mar. 19, 1813	-	
					Feb. 9, 1814	-	
					Dec. 1, 1814	-	
					Mar. 3, 1815	-	
					June 8, 1815	-	
					April 8, 1816	-	
					June 14, 1816	-	

LIST OF PATENTS—NAVIGATION—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Propelling boats by weights	Moses Martin	Woodbridge, N. J.	July 8, 1816
Do horses, mules, &c.	Rodman Bowne	New York	July 18, 1816
Do carriages, &c.	Barnabas Langdon	Whitehall, N. Y.	Feb. 22, 1817
Do machine called the submarine propeller	John L. Sullivan	Boston, Mass.	Mar. 24, 1817
Do boats by the application of condensed air	Do	Do	Mar. 24, 1817
Do vessels by pendulum power	Jos. Cerneau	New York	Aug. 28, 1817
Do animal power	J. P. Durand	Do	Oct. 3, 1817
Do boats	Do	Do	Jan. 17, 1818
Do do	Do	Do	Mar. 6, 1818
Do do by pumps	Mayer Ullman & Moses Isaacs	Philadelphia, Pa. Baltimore, Md.	Mar. 17, 1818 April 10, 1818
Do	John J. Giraud	New York	May 9, 1818
Do	Rennee St. Deprest	Do	June 6, 1818
Do	Thomas Kearing	Albany, N. Y.	Sept. 5, 1818
Do	Henry Farnham	New York	Nov. 18, 1818
Do	Abn. Taylor	Peekskill, N. Y.	Nov. 18, 1818
Do	Jer. Gray	Albany, N. Y.	Dec. 1, 1818
Do	Abn. Bartholomew	New York	Dec. 30, 1818
Do	Henry W. Wheatley	Virginia	Feb. 3, 1819
Do	William J. Lewis	Statesburg, S. C.	April 3, 1819
Do	James Lyon	Jersey City	April 16, 1819
Do	David Cooke	Easton, Md.	Aug. 26, 1819
Do	Robert Spedden	Dan'l French & Pliny	
Do	Bliss	Hamilton, O.	Jan. 22, 1820

Do	boats by wings	Jos. S. Dyster	Baltimore, Md.	Feb. 9, 1820
Do	do machinery for	William R. Lowerie	Flushing, N.Y.	Mar. 29, 1820
Do	do	John J. Giraud	Baltimore, Md.	April 19, 1820
Do	do by setting poles	Robert Kenny	Augusta co., Va.	June 17, 1820
Do	do	Jacob Coon and Ben-	Hartford, N.Y.	July 11, 1820
Do	vessels	jamin Hyde	Baltimore, Md.	Nov. 22, 1820
Do	boats, machinery for	John J. Giraud	Do	Jan. 3, 1821
Do	horse boats	Do	Troy, N.Y.	May 1, 1821
Do	boats by a revolving lever	Barnabas Langdon	Blakely, Ala.	July 10, 1822
Do	do	Lewis Marchand	Stephenson, N.Y.	May 1, 1823
Do	do by step wheel	J. Chittenden and A.	Washington, D.C.	May 9, 1823
Do	do	W. Delano	Schenectady, N.Y.	Aug. 21, 1824
Do	a two horse engine	F. Waterman, 3d	Marcellus, N.Y.	Mar. 12, 1825
Do	circular levers	Benjamin F. Jocelyn	Port Gibson, Miss.	June 9, 1825
Do	lever, alternate	John Turner	Schenectady, N.Y.	Sept. 28, 1825
Do	boats	Robert Smith	Woodbury, Ct.	Mar. 29, 1826
Do	do	Henry R. Teller	Baltimore, Md.	Dec. 12, 1826
Do	do	Chauncey Crafts	Providence, R.I.	Mar. 2, 1827
Do	do and vessels	John J. Giraud	New York	Dec. 22, 1827
Do	do	Elisha Fuller	Lawrence, Ind.	Mar. 15, 1828
Do	vessels at sea	Elijah Bryan	Charleston, S.C.	May 2, 1828
Do	boats or carriages	Timothy Davis	Baltimore, Md.	May 31, 1828
Do	spring and marine valve	William Willis	Norwalk, O.	Aug. 13, 1828
Do	ships, &c.	Anthony Hermange	Philadelphia, Pa.	Aug. 16, 1828
Do	vessels	Hull Case	Troy, N.Y.	Oct. 30, 1828
Do	boats by hydraulic apparatus	Benjamin Phillips	Baltimore, Md.	Nov. 26, 1828
Do	do across ferries	Stephen Ross	Do	Nov. 26, 1828
Do	ships, &c.	Anthony Hermange	Do	Nov. 26, 1828
Do	do improvement on Hermange and	Steenstrup's	Do	Nov. 26, 1828

LIST OF PATENTS—NAVIGATION—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Propelling canal boats	Nathaniel Bingham & Pliny Warner	Rochester, N. Y.	Dec. 15, 1828
Do do and other boats	Samuel D. Bennett	Butternuts, N. Y.	Jan. 30, 1829
Do boats, &c.	Josiah White	Mauch Chunk, Pa.	June 11, 1829
Do do	Benjamin M. Smith	Rochester, N. Y.	Nov. 20, 1829
Power, maintaining, applied on board ships	David Pearson	Newbury, Mass.	Jan. 24, 1816
Preserving vessels from worms	Raphael Peale	Pennsylvania	Dec. 14, 1798
Do wood from marine insects	Robert L. Nicolls	Easton, Md.	Feb. 23, 1811
Do timber under water	George Lovett	New York	April 1, 1815
Do vessels from decay by charcoal	Anthony Planton	Philadelphia, Pa.	Oct. 1, 1825
Pulley, loxodromic, for measuring ship's way	John S. Donlery	New York	Sept. 21, 1815
Pumping ships by pendulous bellows	Benjamin Wynkoop	Pennsylvania	June 26, 1797
Do wheel power	S. Town and R. W. Oliphant	North Granville, N. Y.	April 8, 1826
Do vessels by wind power	Thomas Brownell	New York	Mar. 23, 1827
Pumps, working ship's	Manuel Francis	Boston, Mass.	July 7, 1829
Do for ships	John Stickley	Massachusetts	Nov. 29, 1799
Do do	George Clymer	Pennsylvania	Dec. 22, 1801
Do do	Andrew Henshaw & Nath'l Harlow, jr.	Bangor, Mass.	Aug. 30, 1811
Do Raft, wreck	John B. Pell	New York	Oct. 31, 1829
Do timber	A. Der Buc Marentille	New Jersey	Mar. 18, 1803
constructing	William Deane	Pittsburg, Pa.	Nov. 4, 1805
	Daniel Gordon	Chancery, Pa.	Feb. 14, 1818
	Henry Babb	Westbrook, Me.	Jan. 13, 1824

Railway, marine		John Rogers	Washington, D. C.	June 24, 1822
Do sub		John Thomas	New York	Nov. 6, 1826
Do do		Richard Ward	Do	Dec. 28, 1826
Do do		Jos. Webb	Do	May 14, 1827
Do do	flexible rack	Jesse Wood and P. A.	Sabbatan	Oct. 6, 1827
Do do		John H. Greene	Providence, R. I.	May 26, 1828
Do do		Daniel Rogers	Mobile, Ala.	April 3, 1829
Rapid jack for ascending rapids		Augustus Sacket	New York	July 3, 1809
Raising vessels out of the water		John T. Morgan	Do	Oct. 9, 1806
canal boats and other vessels out of the water		Sylvester Doolittle	Rochester, N. Y.	Oct. 25, 1825
Do canal boats and other vessels out of the water		Elisha Turner	Do	Nov. 18, 1825
Do boats on canals		Do	Do	Dec. 31, 1825
Do do	vessels for repair	Benj. Waterhouse	New York	April 15, 1826
Do canal boats		Seth C. Jones	Rochester, N. Y.	June 16, 1826
Do ships, &c., by cradle screw		Charles Miner	Lynn, Ct.	Oct. 12, 1827
Do boats and vessels		Alfred Warner	Rochester, N. Y.	Nov. 16, 1826
Do ships, &c., by cradle screw		Charles Miner	Lynn, Ct.	Nov. 16, 1827
Do and lowering canal boats without locks		William Wiard	Avon, N. Y.	May 1, 1828
Do ships, &c., out of water		John H. Greene	Providence, R. I.	May 26, 1828
Rigging vessels		Isaac Garretson	Pennsylvania	May 29, 1797
Do do	to mast heads	Stephen Sayre	Bordentown, N. J.	May 9, 1807
Do vessels	standing, of vessels	W. H. Allen, U. S. N.	[Killed by the pirates]	April 25, 1822
Do		Samuel Wells	Boston, Mass.	July 24, 1822
Rowing, machine		Benj. W. Booth	Washington, D. C.	Sept. 28, 1825
Do boats by lever and wheels		Eb. Bryant	New London, Ct.	Jan. 13, 1806
Rudders, hanging		Roswell Hopkins	Hopkinson, N. Y.	Mar. 25, 1808
Do side, for steam boats		John Shaw	Philadelphia, Pa.	Mar. 17, 1818
Do		John L. Sullivan	Boston, Mass.	Dec. 11, 1818
Do		Andrew Watkins	Salem, Mass.	May 21, 1824
Sails of ships, regulating		Jos. S. Sampson	Boston, Mass.	July 5, 1793

LIST OF PATENTS—NAVIGATION—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Scows and boats	Elisha Sherman	Lansingburg, N. Y.	Mar. 2, 1809
Do for sand	Rufus Elliot	Georgetown, D. C.	Feb. 14, 1818
Sculling boats by steam	Jos. Hunt	East Chester, N. Y.	Mar. 11, 1812
Do	Isaac Silliman	Philadelphia, Pa.	Dec. 17, 1812
Sheathing vessels	Henry Guest	New Jersey	Jan. 26, 1801
Ships and vessels, structure and boats, building	Jer. Brown	Rhode Island	May 14, 1800
Do &c., modelling	William Phoebus	New York	June 27, 1810
constructing and navigating building	Fred. Tudor	Boston, Mass.	Dec. 17, 1812
Do	Benj. Connor	Portsmouth, N. H.	Aug. 26, 1813
Do	David M. Randolph	Richmond, Va.	Aug. 2, 1815
Do	Abel Brewster	Hartford, Ct.	Mar. 6, 1820
Do machine for ascertaining the velocity of, and tides	Jas. D. Woodside	Washington, D. C.	Mar. 17, 1829
Signals for vessels	Nathaniel Shaler	New York	Feb. 21, 1810
Staging, swing steering vessels	Elijah Drury	Washington, Mass.	Feb. 16, 1829
Do do	John Phillips & Jas. Smallman	Philadelphia, Pa.	Sept. 18, 1810
Do	Stephen G. Clark & Geo. Stimson	Charlestown, Mass.	April 26, 1826
Do wheel	R. Kingsbury and E. Rowse	Bath, Me.	July 10, 1826
Do ships, &c.	Michael Pierson	Newburyport, Mass.	April 1, 1829
Steam boat	Edward West	Kentucky	July 6, 1802
Steam boat, chain float	Michael Morrison	Boston, Mass.	Jan. 17, 1811
Do	John Evelett	Do	April 23, 1812
Do and engine	D. Large and F. Grice	Philadelphia, Pa.	Dec. 17, 1812

Do	ship, or floating battery	Mendham, N. J.	Feb. 2, 1814
Do	boat, canal	Baltimore, Md.	April 4, 1815
Do	do for shallow water	Albany, N. Y.	Mar. 24, 1823
Do	do for canals	New York	April 28, 1826
Table, sea		Erie, Pa.	Feb. 14, 1828
Do	for use in ships	Baltimore, Md.	June 9, 1809
Tally, machine for keeping		Wilkesbarre, Pa.	Nov. 8, 1814
Tide gauge		Plymouth, N. C.	July 12, 1823
Timber, bending, for boat building		Washington, D. C.	April 14, 1824
Tow boat, steam, and warping windlass		Piqua, Ohio	May 27, 1820
Do	do	Boston, Mass.	April 2, 1814
Towing boats on canals, apparatus for		Do	Dec. 4, 1816
Do		New York	Jan. 24, 1820
Tow line for canal boats, of bullocks' hides		Savannah, Geo.	May 24, 1820
Trenails for ships		Palmyra, N. Y.	Mar. 12, 1825
Truss, lever, and sling		Weston, Ct.	Feb. 16, 1829
Do for hanging ships' yards		Hartford, Vt.	Dec. 13, 1821
Do lever, and sling, for the yards of vessels		Boston, Mass.	July 24, 1822
Do cast iron		New York	Sept. 24, 1824
Ventilating pump		Boston, Mass.	Dec. 23, 1824
Do vessels		New York	July 31, 1822
Ventilators, nautical		Do	Oct. 10, 1801
Vessels with crooked keels		Norfolk, Va.	Aug. 23, 1822
Ways for drawing up vessels		Philadelphia, Pa.	June 19, 1795
Do		Pennsylvania	April 27, 1803
Weighing canal boats		New London, Ct.	Feb. 8, 1826
Do	goods on board of boats	Do	July 7, 1828
Wheel, compound chain and band, for propelling boats by steam		New York	June 20, 1826
		Troy, N. Y.	June 18, 1829
		Philadelphia, Pa.	Nov. 1, 1810

LIST OF PATENTS—NAVIGATION—Continued.

INVENTIONS OR DISCOVERIES	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Wheel of elastic oars, for propelling boats	Lewis Latour	Philadelphia, Pa.	Feb. 16, 1813
Do screw, for propelling boats	James Widdesfield	Canton, Mass.	Oct. 11, 1815
Do for propelling boats by animal power	Anthony Olney	Boston, Mass.	Dec. 11, 1817
do	John S. Troit	Boston, Mass.	June 2, 1818
Do for boats	Hiram Brown	Lebanon, O.	July 24, 1818
Do horse, for boats	R. Brown & J. Murphy	New York	Nov. 18, 1818
Do double stern, for boats	John L. Sullivan	Boston, Mass.	Dec. 10, 1818
Do helm, spiral	Rob. P. Cunningham	Pomfret, Ct.	Aug. 3, 1820
Do for propelling boats	James Prince	New York	Oct. 2, 1820
Do polygonal, and chain paddles	T. Elmer & A. Pierson	Bridgetown, N. J.	Jan. 31, 1822
Do elbow, for propelling boats	Ralph Bulkeley	New York	April 24, 1824
Do steering	John M. Brown	Boston, Mass.	Mar. 24, 1826
Do for steam boats	John J. Giraud	Baltimore, Md.	Sept. 15, 1826
Do for propelling boats	Benj. Raymond, jr.	Beverly, Mass.	Nov. 13, 1826
Do water, for steam boats	Rob. L. Stephens	Hoboken, N. J.	April 10, 1827
Do float	Stacy Costill	Philadelphia, Pa.	Oct. 17, 1827
Do inside lever, propelling	John G. Giraud	Baltimore, Md.	Dec. 1, 1829
Windlass, ship	Hez. Betts	Norwalk, Ct.	Aug. 29, 1834
Do and capstan	John Galvin	Philadelphia, Pa.	Nov. 6, 1810
Do	Samuel Nicholson	Boston, Mass.	Dec. 1, 1828
Yards of vessels, slingng	Isaac Carver, Jr.	Prospect, Me.	Dec. 11, 1827
Do suspending	Samuel A. Wells	Boston, Mass.	Jan. 23, 1828

LIST OF PATENTEES—NAVIGATION.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Annesly, Wm.	New York	Boats and sea vessels, building	Sept. 12, 1816
Adamson, John	Boston, Mass.	Dock, dry, floating	Dec. 13, 1816
Anderson, Alex.	Philadelphia, Pa.	Propelling boats or vessels	Aug. 21, 1812
Allen, Wm. H., U. S. N.	[Killed by the pirates]	Rigging to mast heads	April 25, 1822
Ball, William	New York	Blubber knife	April 25, 1822
Buel, Samuel	Burlington, Ct.	Boats, flat bottomed, with moveable keel	July 7, 1810
Bond, Thomas J.	Baltimore, Md.	Do iron	Dec. 21, 1820
Bell, Robert P.	New York	Do transporting on canals from one level to another	July 13, 1827
Bromwell, Jacob	Cincinnati, Ohio	Do canal passage	June 23, 1829
Bakewell, Thomas W.	Do	Do for canals	Aug. 25, 1829
Do	Do	Building vessels, &c.	Feb. 21, 1827
Brookfield, William	Detroit, Michigan	Diving, mode of	July 17, 1820
Brux, Albert	Augusta, Ga.	Dock, dry, floating	Nov. 6, 1818
Bulkeley, Ralph	New York	Do do	Aug. 28, 1821
Bergh, Christian	Do	Do do	April 29, 1825
Buck, Ephraim, H.			
Crehore, R. Jerry, and A. Bayard	Boston, Mass.	Elevating	July 11, 1825
Barron, James	Norfolk, Va.	Do carrying and lifting trunk	Aug. 2, 1826
Bailey, Azael	Havre de Grace, Md.	Fish, catching, by floating wharves	June 24, 1820
Beale, Josiah	Alexandria, D. C.	Keels, swinging	Jan. 15, 1812
Barney, Mathew	Massachusetts	Mud machine	May 4, 1803
Baker, Charles T.	Providence, R. I.	Do	April 12, 1819
Babcock, Abijah	New York	Propelling vessels	Dec. 2, 1793

LIST OF PATENTEES—NAVIGATION—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Bell, William	Pennsylvania	Propelling boats by horses, mules, &c.	Nov. 24, 1803
Browne, Rodman	New York	Do do	July 18, 1816
Bartholomew, Abra.	Albany	Do do	Dec. 1, 1818
Bryan, Elijah	New York	Do vessels at sea	Dec. 22, 1827
Bingham, Nathaniel, and Pliny Warner	Rochester, N. Y.	Do canal boats	Dec. 15, 1828
Bennet, Samuel D.	Butternuts	Do do and other boats	Jan. 30, 1829
Brownell, Thomas	New York	Pumping vessels by wind power	Mar. 23, 1827
Babb, Henry	Westbrook, Md.	Raft, constructing	Jan. 13, 1824
Booth, Benjamin W.	Washington, D. C.	Rigging, stanling, of vessels	Sept. 28, 1825
Bryant, Ebenezer	New London, Ct.	Rowing machine	Jan. 13, 1806
Brown, Jeremiah	Rhode Island	Ships and vessels, structure of	May 14, 1800
Brewster, Abel	Hartford, Ct.	Do building	Mar. 6, 1820
Baldwin, Enos	New York	Truss, cast iron	July 31, 1822
Beebe, Eliphalet	Pennsylvania	Vessels with crooked keels	April 27, 1803
Bull, Benjamin	New York	Weighing canal boats	June 20, 1826
Bolton, Samuel	Philadelphia, Pa.	Wheel, compound chain and band, for propelling boats by steam	Nov. 1, 1810 July 24, 1818
Brown, Hiram	Lebanon, Ohio	Wheel for boats	
Brown, Rodman, and			
John Murphy	New York	Do horse, for boats	Nov. 18, 1818
Buckley, Ralph	Do	Do elbow, for propelling boats	April 24, 1824
Brown, John M.	Boston, Mass.	Do steering	Mar. 25, 1826
Betts, Hez.	Norwalk, Ct.	Windlass, ship	Aug. 29, 1804

Covenhoven, Edmd.	Greenburg, N. Y.	Dock, dry, floating	Oct. 30, 1821
Clark, Levi H., and Lewis M. Wiss	New York	Dock, dry, fresh water	Nov. 22, 1825
Campbell, Harvey W.	Lockport, N. Y.	Excavator, floating	Jan. 22, 1828
Cohoon, Thomas	Pittsfield, Mass.	Ferry boat	June 25, 1813
Colver, Stephen	Connecticut	Heaving down vessels, and raising weights	Dec. 14, 1798
Crownshield, John	Salem, Mass.	Do do do	Oct. 19, 1827
Crafts, Moses	Troy, N. Y.	Horse boat	Feb. 14, 1809
Colver, Stephen	Connecticut	Mud machine	Dec. 14, 1798
Collins, Samuel	New York	Do	Sept. 26, 1826
Clark, Edward	Philadelphia, Pa.	Navigating and ferrying rivers	June 25, 1823
Claiborn, Richard	Virginia	Paddles for boats	Feb. 28, 1802
Clark, Edward	New York	Inclined plane for drawing up vessels	June 27, 1825
Cerneau, Jos.	Do	Propelling boats by pendulum power	Aug. 28, 1817
Do	Do	Do	Mar. 6, 1818
Cooke, David	Jersey City	Do do or vessels	April 16, 1819
Coon, Jac., and Benj. Hyde	Hartford, N. Y.	Do boats	July 11, 1820
Crafts, Chauncey	Woodbury, Ct.	Do do	Mar. 29, 1826
Ease, Hull	Norwalk, Ohio	Do vessels	Aug. 13, 1828
Chittenden, J., and A. W. Delano	Stephenson, N. Y.	Do boats	May 1, 1823
Clymer, George	Pennsylvania	Pumps for ships	Dec. 22, 1801
Conner, Benjamin	Portsmouth, N. H.	Ships, constructing and navigating	Aug. 26, 1813
Clark, Stephen Gr., and Geo. Stimson	Charlestown, Mass.	Steering vessels	April 26, 1826
Cooper, Peter	New York	Towing boats on canals, apparatus for	Jan. 24, 1820
Cohoon, Thomas	Troy, N. Y.	Weighing goods on board of boats	June 18, 1829
Cunningham, Robt. P.	Pomfret, Ct.	Wheel, helm, spiral	Aug. 3, 1820
Castill, Stacy	Philadelphia, Pa.	Do float	Oct. 17, 1827
Carver, Isaac, Jr.	Prospect, Me.	Yards of vessels, slinging	Dec. 11, 1827

LIST OF PATENTEES—NAVIGATION—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
			APRIL 3, 1821
Dawson, N. C., and A. Rucker	Pedlar's Mills, Va.	Boats for rivers	July 26, 1824
Davidson, Wm. C., & Daniel Clark	Pittsford, N. Y.	Diving suit	Oct. 3, 1822
Denny, John	Queen Ann co., Md.	Floating vessels	June 28, 1814
Dunham, David	New York	Horse boat machinery	Jan. 22, 1817
Davis, Samuel	Baltimore, Md.	Mud machine, floating	Mar. 28, 1818
Do	Do	Do	Feb. 9, 1821
Doxey, B. S.	Do	Paddles for wheels, gearing and ungearing	Oct. 3, 1817
Durand, J. P.	New York	Propelling vessels by animal power	Jan. 17, 1818
Do	Do	Do boats	Feb. 9, 1820
Dyster, Joseph S.	Baltimore, Md.	Do by wings	Mar. 15, 1828
Davis, Timothy	Lawrence, Ind.	Do or carriages	Sept. 21, 1815
Donlery, John S.	New York	Pulley, loxodromic for measuring ships' way	Nov. 4, 1805
Deane, William	Pittsburg, Pa.	Raft	Oct. 25, 1825
Doolittle, Sylvester	Rochester, N. Y.	Raising canal boats and other vessels out of the water	Feb. 16, 1829
Drury, Elijah	Washington, Mass.	Staging, swing	Feb. 2, 1814
Dodd, Daniel	Mendham, N. J.	Steam boat	Dec. 6, 1828
Evans, James	Charlestown, Mass.	Blocks, snatch	Jan. 28, 1829
Ely, John C.	New York	Dock, screw	May 25, 1795
Ellisott, Joseph	Pennsylvania	Fish, catching	Aug. 14, 1811
Emerson, Hawley	Hancock	Do do wear for	Feb. 21, 1826
Eveleth, John	-	Mud machine	Aug. 9, 1821
Do	-	Do	Feb. 14, 1818
Elliot, Rufus	Georgetown, D. C.	Scows for sand	
Do	-		

Evelett, John	Boston, Mass.	Steamboat	April 23, 1812
Elmer, T., and J. Per-			
son			
Flower, William	Bridgetown, N. J.	Wheel, polygonal, and chain paddles	Jan. 21, 1822
Fountaine, Garrett	Philadelphia, Pa.	Buoy, life	May 14, 1808
Floyd, John	Staten Island, N. Y.	Centre board to increase the speed of vessels	Mar. 15, 1825
Freeman, Peter	Kittery, Me.	Dock, dry, floating	Aug. 17, 1826
Fuller, Salmon	Morris co., N. J.	Friction, lessening, in canal boats	June 1, 1825
Freeland, John	Clarke co., Indiana	Horse boat	Feb. 19, 1811
Fitch, John	New York	Oyster platform	April 29, 1828
Farnham, Henry, & Pliny	Philadelphia, Pa.	Propelling boats by steam	Aug. 26, 1791
French, Dan., & Pliny	Albany, N. Y.	Do	Sept. 5, 1818
Bliss	Hamilton, O.	Do	June 22, 1820
Fuller, Elisha	Providence, R. I.	Do	Mar. 2, 1827
Francis, Manuel	Boston, Mass.	Pumps, working ships'	July 7, 1829
Fish, Preserved	New York	Truss for hanging ships' yards	Sept. 24, 1824
Grieve, David	Massachusetts	Boat for ascending rivers	Feb. 24, 1801
Geissenheimer, Ford W.	New York	Do rapids	Jan. 14, 1814
Graves, Robert	Brooklyn, N. Y.	Do passing up and down elevations on canals	July 26, 1827
Gardiner, John	Washington, D. C.	Dock, dry	Dec. 3, 1802
Genet, E. C.	New York	Fender for steamboats	Sept. 9, 1825
Gordon, Daniel	Lower Chance Ford, P.	Fish, catching	Mar. 27, 1824
Gray, George	Lynn	Lights for decks of ships	Mar. 26, 1825
Gould, Chester	Pennsylvania	Log for ships	May 27, 1799
Greenleaf, John	Massachusetts	Mud machine	July 13, 1802
Godley, Joseph	Alexandria, N. J.	Navigating rivers	Feb. 22, 1823
Giraud, John J.	Baltimore Md.	Navigation, improvement in	Jan. 31, 1827
Do	Do	Paddles, water	Sept. 18, 1827
Gregg, Thomas	Connellsville, Pa.	Propelling ball proof vessels by steam applied underwater	Mar. 19, 1813
Giraud, John J.	Baltimore, Md.	Do boats	April 10, 1818
Gray, Jer.	Peekskill, N. Y.	Do	Nov. 18, 1818

LIST OF PATENTEES—NAVIGATION—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Giraud, John J.	Baltimore, Md.	Propelling boats	April 19, 1820
Do	Do	Do vessels	Nov. 22, 1820
Do	Do	Do boats, machinery for	Jan. 3, 1821
Do	Do	do and vessels	Dec. 12, 1826
Gordon, Daniel	Chaceford, Pa.	Raft, timber	Feb. 14, 1818
Greene, John H.	Providence, R. I.	Railway, marine	May 26, 1828
Do	Do	Raising ships, &c., out of water	May 26, 1828
Garretson, Isaac	Pennsylvania	Rigging vessels	May 29, 1797
Guest, Henry	New Jersey	Sheathing vessels	Jan. 26, 1801
Giraud, John J.	Baltimore, Md.	Wheel for steamboats	Sept. 15, 1826
Do	Do	Do inside lever propelling	Dec. 1, 1829
Galvin, John	Philadelphia, Pa.	Windlass and capstan	Nov. 6, 1810
Hollins, William	Baltimore, Md.	Ark, safety	May 4, 1824
Hopkins, William	Connecticut	Boatbuilding	May 13, 1803
Hall, Chauncey	Do	Diving dress	Dec. 24, 1810
Hall, Philander	-	Keel, false, swinging	April 2, 1816
Haskell, Roger	-	Navigable mercantile house	July 7, 1821
Hunn, Anthony	Danville, Ky.	Navigation, improvement in	Mar. 24, 1804
Heilbrown, Adolph.	New York	Do do machinery	Mar. 16, 1829
Heavin, John	Montgomery co., Va.	Propelling boats	April 17, 1806
B. Boyer, & Phil- mon Heaton, Jr.	-	Do do	March 4, 1808
Hermange, Anthony	Baltimore, Md.	Do ships, &c.	May 31, 1828
Do	Do	do	Nov. 26, 1828

		Propelling ships, improvement on Hermange and Steenstrup's	Nov. 26, 1828
Do	Henshaw, And., & Nat.		
	Harcourt, jr.	Bangor, Mass.	Aug. 30, 1811
	Hopkins, Roswell	Hopkinson, N. Y.	Mar. 25, 1808.
	Hunt, Joseph	East Chester, N. Y.	Mar. 11, 1812
28	Huguenin, Robert	Albany, N. Y.	Mar. 24, 1823
	Howard, Samuel	Savannah, Ga.	May 24, 1820
	Irnard, Maximin	New York	June 22, 1826
	Isaacs, Moses	Philadelphia, Pa.	Mar. 17, 1818
	Jenks, Eb.	Colebrook, Ct.	June 6, 1817
	Josselyn, Christ.	New York	June 28, 1826
	Jossilyn, James	Do	May 3, 1828
	Jocelyn, Benj. F.	Schenectady, N. Y.	Aug. 21, 1824
	Jones, Seth C.	Rochester, N. Y.	June 16, 1826
	Keller, Daniel	Pennsylvania	Nov. 5, 1799
	Kearsing, Wm. F.	New York	Dec. 8, 1826
	Knight, William	Morristown, N. J.	Aug. 5, 1828
	Kendrick, John	Newton, Mass.	June 10, 1818
	Keller, Daniel	Pennsylvania	May 25, 1795
	Kearsing, Thomas	New York	June 6, 1818
	Kinny, Robert	Augusta co., Va.	June 17, 1820
	Kingsbury, R., and E.		
	Rowse	Bath, Me.	July 10, 1826
	Lewis, Winslow	Boston, Mass.	June 24, 1828
	Lies, Bennett	New York	June 20, 1815
	Langley, Lemuel	Gosport, Va.	June 23, 1828
	Lowerie, Wm. R.	New York	June 23, 1825
	Lamb, John	Amboy, N. J.	Mar. 18, 1820
	Langdon, Barnabas, &		
	John C. Langdon	Troy, N. Y.	June 5, 1819

LIST OF PATENTEES—NAVIGATION—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Livingston, Gilbert	New York	Keels of vessels	Oct. 22, 1803
Livingston, Robert L.	Clermont, N. Y.	Paddles and chain wheels for boats	June 13, 1812
Lies, Bennett	New York	Predrometer, sea	June 20, 1815
Langdon, Barnabas	Whitehall, N. Y.	Propelling boats, carriages, &c.	Feb. 22, 1817
Lewis, William J.	Virginia	Do do and vessels	Feb. 3, 1819
Lyon, James	Statesburg, S. C.	Do do	April 3, 1819
Lowerie, Wm. R.	Flushing, N. Y.	Do machinery for	Mar. 29, 1820
Langdon, Barnabas	Troy, N. Y.	Do horseboats	May 1, 1821
Lovett, George	New York	Preserving timber under water	April 1, 1815
Large, Dan., & Francis Grier	Philadelphia, Pa.	Steamboat and engine	Dec. 17, 1812
Latour, Lewis	-	Wheel of elastic oars for propelling boats	Feb. 16, 1813
Marentinne, Dulric A.	-	Boat, insubmersible	Dec. 23, 1822
Marentille, Ab. De Buc	New Jersey	Chain, marine	Mar. 18, 1803
Mellus, William	Dorchester, Mass.	Covering heads of nails, bolts, &c.	Aug. 3, 1822
Magrath, Pat'k	Philadelphia, Pa.	Dams, river, for the easy passage of fish up and down	Oct. 10, 1829
Morris, Eph.	Bloomfield Town'p, Pa.	Inclined plane for raising and lowering canal boats from one level to another	-
Martin, John	New York	Propelling boats	Oct. 13, 1829
Manny, Gab.	Montgomery, N. Y.	Do	Nov. 21, 1797
Martin, Moses	Woodbridge, N. J.	Do by weights	June 8, 1815
Marchand, Lewis	Blakely, Ala.	Do by a revolving lever	July 8, 1816
Marentille, Ab. De Buc	New Jersey	Raft, wreck	July 10, 1822
Morgan, John T.	New York	Raising vessels out of the water	Mar. 18, 1803
Miner, Charles	Lynn, Conn.	Do ships, &c., by cradle screw	Oct. 9, 1806
		Do	Oct. 12, 1827

<i>Do</i>	Morrison, Mich.	Boston, Mass.	Nov. 16, 1827
<i>Miller, Amasa</i>	New London, Ct.	Steamboat, chain float -	Jan. 17, 1811
<i>Do</i>	Providence, R. I.	Ways for drawing up vessels -	Feb. 8, 1826
<i>Do</i>	Easton, Md.	Mud machine -	July 7, 1828
<i>Newman, John</i>	Boston, Mass.	Preserving wood from marine insects -	June 27, 1829
<i>Nicholls, Robert L.</i>	<i>Do</i>	Windlass -	Feb. 23, 1811
<i>Nicholson, Samuel</i>	<i>Do</i>	Lights, glass, for ships -	Dec. 1, 1828
<i>Oakes, Joshua</i>	Piqua, Ohio	Oar heads -	May 11, 1822
<i>Orbison, John</i>	<i>Do</i>	Timber, bending, for boat building -	Mar. 27, 1820
<i>Do</i>	Canton, Mass.	Wheel for propelling boats by animal power -	May 27, 1820
<i>Olney, Anthony</i>	Washington, D. C.	Boat worked by quadrupeds -	Dec. 11, 1817
<i>Porter, David</i>	Philadelphia, Pa.	Do for canals -	Feb. 8, 1816
<i>Phillips, Benjamin</i>	Middletown, Ct.	Composition for bottoms of vessels -	April 21, 1828
<i>Pratt, John</i>	New York	Dock, dry -	Jan. 14, 1809
<i>Place, Alonzo</i>	Lansing, N. Y.	Floor, elastic, for propelling boats -	April 1, 1826
<i>Phelps, Oliver</i>	Baltimore, Md.	Hoisting machine -	Nov. 17, 1821
<i>Purden, William</i>	Cumberland co., N. J.	Paddles, chain, for boats -	Mar. 19, 1806
<i>Pierson, Asahel</i>	London, England	Do wheels -	Mar. 2, 1811
<i>Perkins, Jac.</i>	Louisville, Ky.	Propelling boats -	Nov. 30, 1829
<i>Pearce, James A.</i>	Philadelphia, Pa.	Do by hydraulic apparatus -	April 7, 1807
<i>Phillips, Benjamin</i>	Newbury, Mass.	Power, maintaining, applied on board ships -	Aug. 16, 1828
<i>Pearson, David</i>	Pennsylvania	Preserving vessels from worms -	Jan. 24, 1816
<i>Peale, Raphael</i>	Philadelphia, Pa.	Do do from decay by charcoal -	Dec. 14, 1798
<i>Planton, Anthony</i>	New York	Pumps for ships -	Oct. 1, 1825
<i>Pell, John B.</i>	<i>Do</i>	Ships and boats, building -	Oct. 31, 1829
<i>Phœbus, William</i>	Philadelphia, Pa.	Steering vessels -	June 27, 1810
<i>Phillips, John, and Jas.</i>	Newburyport, Mass.	Do ships, &c. -	Sept. 18, 1810
<i>Smallman</i>	New York	Steamboat for shallow water -	April 1, 1829
<i>Pierson, Michael</i>	Wilkesbarre, Pa.	Table for use in ships -	April 28, 1826
<i>Phillips, Benjamin</i>			Nov. 8, 1814
<i>Patrick, George</i>			

LIST OF PATENTEES—NAVIGATION—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Prince, James	New York	Wheel for propelling boats	Oct. 2, 1820
Rotch, Francis	New Bedford, Mass.	Boats and vessels, constructing	Nov. 29, 1811
Do	Philadelphia, Pa.	Do do	Aug. 3, 1812
Russell, William, jr.	New Bedford, Mass.	Composition for bottoms of vessels	Nov. 8, 1819
Russell, James	Do	Do do	Jan. 29, 1820
Rhodes, William	New York	Dock, dry, floating	Mar. 16, 1808
Rose, Samuel	Do	Do do	June 15, 1812
Rogers, Moses	Do	Dock, projecting	Jan. 7, 1817
Roch, Benjamin	Bristol, England	Fids for ships' masts	Dec. 10, 1823
Robbins, Nathaniel	New Jersey	Fish, mode of carrying in warm weather	Mar. 11, 1802
Randolph, John F.	New York	Floating machine for supplying ships with fresh water	April 5, 1811
Rogers, Robert	Dover, N. H.	Lanyards, chain	Feb. 6, 1823
Renwick, James	New York	Navigation, improvement in internal	Nov. 7, 1823
Ramsay, James	Berkeley co., Va.	Propelling boats or vessels	Aug. 26, 1791
Rogers, Moses	New York	Do by animal power	Feb. 9, 1814
Roosevelt, Nich. J.	New Jersey	Do by steam	Dec. 1, 1814
Rogers, Moses	New York	Do by animal power	Mar. 3, 1815
Rudd, Stephen	Do	Do vessels in a calm	June 14, 1816
Ross, Stephen	Troy, N. Y.	Do boats across ferries	Oct. 30, 1828
Rogers, John	Washington, D. C.	Railway, marine	June 24, 1822
Rogers, Daniel	Mobile, Ala.	Do do	April 3, 1829
Randolph, David M.	Richmond, Va.	Shipbuilding	Aug. 2, 1815
Richardson, Wm. H.	Baltimore, Md.	Table for sea	June 9, 1809
Rowell, Thomas	Hartford, Vt.	Trenails for ships	Dec. 13, 1821
Robotham, Rd.	New York	Ventilating pump	Oct. 10, 1810

Raymond, Benj., jr.	Beverly, Mass.	Wheel for propelling boats	Nov. 13, 1826
Smith, Joseph F.	Baltimore, Md.	Binnacle lights	June 1, 1825
Selden, Elias	Haddam, Ct.	Dock, dry	July 30, 1829
Swain, Jacob, H. Swain, and Joshua Swain	Cape May c. h., N.J.	Leeboard	April 10, 1811
Shultz, William	Baltimore, Md.	Mud machine	June 16, 1809
Seaman, Corn.	Washington co., Md.	Oar head	Aug. 15, 1817
Sullivan, John L.	Boston, Mass.	Paddles for propelling ships	April 28, 1818
Searborough, William P.	Darien, Geo.	Planking vessels	May 19, 1824
Sprague, William P.	Pennsylvania	Propelling boats by horse power	June 19, 1795
Starr, Jehosaphat	Connecticut	Do &c., by steam	April 28, 1797
Strondinger, Charles	New Jersey	Vessels	June 2, 1798
Shackford, Josiah	New York	Boats	Mar. 21, 1799
Stilwell, Samuel, and Daniel T. Wandell		Do	apparatus for boats -
Shaw, William	Otsego, N. Y.	Do	and rowing boats
Shultz, William	Philadelphia, Pa.	Do	hydraulic boats against currents
Shaw, William	Otsego, N. Y.	Do	boats, working mills, &c.
Schenck, John T.	New York	Do	do by levers and weights
Sullivan, John L.	Boston, Mass.	Do	machine, called the submarine propeller
Do	Do	Do	boats by the application of condensed air
St. Deprest, Rennie	New York	Do	do
Spedden, Robert	Easton, Md.	Do	ferry boats -
Smith, Robert	Port Gibson, Miss.	Do	lever, alternate
Small, Benj. M.	Rochester, N. Y.	Do	boats
Stickley, John	Massachusetts	Pumps for ships	Nov. 29, 1799
Sacket, Augustus	New York	Rapid jack for ascending rapids	July 3, 1809
Sayre, Stephen	Bordentown, N. J.	Rigging vessels	May 9, 1807
Shaw, John	Philadelphia, Pa.	Rudders, hanging	Mar. 17, 1818
Sullivan, John L.	Boston, Mass.	Rudder, side, for steamboats	Dec. 11, 1818
Sampson, Joseph S.	Do	Sails for ships, regulating	July 3, 1793

LIST OF PATENTEES—NAVIGATION—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Shirman, Elisha	Lansingburg, N. Y.	Scows and boats	Mar. 2, 1809
Silliman, Isaac	Philadelphia, Pa.	Sculling boats by steam	Dec. 17, 1812
Shaler, Nathaniel	New York	Signals for vessels	Feb. 21, 1810
Stiles, George	Baltimore, Md.	Steam ship or floating battery	April 4, 1815
Sullivan, John L.	Boston, Mass.	Towboat, steam, and warping windlass	April 2, 1814
Do	Do	Do	Dec. 4, 1816
Sanford, James	Weston, Ct.	Tow line for canal boats of bullocks' hides	Feb. 16, 1829
Skinner, Charles W.	Norfolk, Va.	Ventilating vessels	Aug. 23, 1822
Sullivan, John L.	Boston, Mass.	Wheel, double stern, for boats	Dec. 10, 1818
Stephens, Robert L.	Hoboken, N. J.	Do water, for steamboats	April 10, 1827
Thomas, John	Washington, D. C.	Naval architecture	April 14, 1825
Do	New York	Bilge, lever, for supporting ships	Nov. 6, 1826
Do	Do	Do ways	Oct. 10, 1829
Do	Washington, D. C.	Blocks and wedges for raising ships	May 17, 1822
Taber, Benjamin	Fair Haven, Mass.	Blubber, mincing whales	Aug. 11, 1821
Thwing, Lemuel	Dedham, Mass.	Boat for passing up rapids	Aug. 12, 1820
Thorp, Thomas	Washington, D. C.	Do constructing	Aug. 31, 1827
Tripe, Richard	Dover, N. H.	Diving machine	April 1, 1806
Thomas, John	New York	Dock, railway	Feb. 24, 1826
Turner, Elisha	Rochester, N. Y.	Do screw	Oct. 10, 1829
Thomas, John	Washington, D. C.	Dowelling bit used in ship building	April 2, 1825
Taylor, Benjamin	New York	Impelling boats on water or land	April 25, 1808
Tucker, James	Baltimore, Md.	Mud machine	Dec. 13, 1816
Thornton, William	Washington, D. C.	Paddles or flutter wheels of boats	Dec. 23, 1824
Thomas, John	Do	Planking vessels	Dec. 2, 1822

Tuthill, A. G. D.	New York	Propelling boats, &c., -	Mar. 22, 1810
Tatham, William	Washington, city D.C.	Do by steam	April 18, 1816
Taylor, Abn.	New York	Do	Nov. 18, 1818
Turner, John	Marcellus, N. Y.	circular levers	Mar. 12, 1825
Teller, Henry R.	Schenectady, N. Y.	Do	Sept. 28, 1825
Town, S., and R. W.	North Granville, N.Y.	Pumping ships by wheel power	April 8, 1826
Oliphant	New York	Railway, sub marine,	Nov. 6, 1826
Thomas, John	Rochester, N. Y.	Raising boats on canals	Nov. 18, 1825
Turner, Elisha	Do	Do	Dec. 31, 1825
Tudor, Frederick	Boston, Mass.	Ships, &c., modelling	Dec. 17, 1812
Turner, William A.	Plymouth, N. C.	Tally, machine for keeping	July 12, 1823
Townsend, Edw. S.	Palmyra, N. Y.	Towing boats	Mar. 12, 1823
Trott, John S.	Boston, Mass.	Wheel for propelling boats	June 2, 1818
Ujiman, M., & M. Isaacs	Philadelphia, Pa.	Propelling boats by pumps	Mar. 17, 1818
Voight, Henry	Philadelphia, Pa.	Propelling boats by animal power	Aug. 10, 1791
Wadsworth, William	Hartford, Ct.	Boat, anti-steam	July 17, 1806
Williams, Benjah	Mendon, N. Y.	Do for canals	Mar. 3, 1829
Whiting, Ruggles	Louisville, Ky.	Bulkhead, water tight, for steamboats	June 6, 1829
Webb, Joseph	New York	Dock, dry, rotary	May 3, 1817
Wells, James, jr.	Galloway, N. J.	Fish vessels and nets	Dec. 17, 1814
Williams, John J.	Georgetown, D. C.	Ice breaking machine	Mar. 2, 1813
Wyeth, Nath. J.	Cambridge, Mass.	Do cutting	Mar. 18, 1829
Wiltse, James	Fishkill, N. Y.	Keels and kelsons of leeboard vessels	May 4, 1821
Watchman, J., and J.			
Bratt	Baltimore, Md.	Mud machine	Feb. 18, 1825
Williams, Michael	Albany, N. Y.	Navigating rivers in shoal water	Feb. 24, 1809
Whittemore, Amos	Massachusetts	Perambulator, nautical	Nov. 19, 1796
Williams, John	Deerfield, Mass.	Plane, inclined, for boats on canals	Mar. 23, 1804
Wynkoop, Benj.	Philadelphia, Pa.	Propelling vessels	Sept. 13, 1794
Wadsworth, William	Hartford, Ct.	Do boats	Mar. 15, 1808

LIST OF PATENTEES—NAVIGATION—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Wheatley, Henry W.	New York	Propelling boats by screw power	Dec. 30, 1818
Waterman, F., 3d	Washington, D. C.	Do by strap wheel	May 9, 1823
Willis, William	Charleston, S. C.	Do by spring and marine valve	May 2, 1828
White, Josiah	Mauch Chunk, Pa.	Do &c.	June 11, 1829
Wynkoop, Benj.	Pennsylvania	Pumping ships by pendulous bellows	June 26, 1797
Ward, Richard	New York	Railway, marine	Dec. 28, 1826
Webb, Joseph	Do	Do	May 14, 1827
Wood, Jesse, and P. A.	Do	Do flexible rack	Oct. 6, 1827
Sabbatan	Do	Raising vessels for repairs	April 15, 1826
Waterhouse, Benj.	Rochester, N. Y.	Do boats and vessels	Nov. 16, 1826
Warner, Alfred	Avon, N. Y.	Do and lowering canal boats without locks	May 1, 1828
Wiard, William	Boston, Mass.	Rigging vessels	July 24, 1822
Wells, Samuel	Salem, Mass.	Rudders	May 21, 1825
Watkins, Andrew	Washington, D. C.	Ships, machine for ascertaining the velocity of, and tides	Mar. 17, 1829
Woodside, James D.	Kentucky	Steamboat	July 6, 1802
West, Edward	Erie, Pa.	Do for canals	Feb. 14, 1828
Wright, John F.	Washington, D. C.	Tide gauge	April 14, 1824
Woodside, James D.	Boston, Mass.	Truss, lever, and sling	July 24, 1822
Wells, Samuel	Do	Do for the yards of ships	Dec. 23, 1824
Wells, Samuel A.	Philadelphia, Pa.	Ventilators, nautical	June 19, 1795
Wynkoop, Benjamin	Do	Wheel, screw, for propelling boats	Oct. 11, 1815
Widdefield, James	Boston, Mass.	Yards of vessels, suspending	Jan. 23, 1828
Wells, Samuel A.	Baltimore, Md.	Mud machine	Nov. 24, 1791
Zaccharie, Peter			

LIST OF PATENTS—LAND WORKS.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
29 Bogging machine	Squire Collins	Hillsdale, N. Y.	Feb. 22, 1827
Boring for water	Valentine Cook	-	Nov. 1, 1803
Do posts, &c.	Anthony Butler	Vermont	Nov. 7, 1811
Do for water	Levi Disbury	New Brunswick, N. J.	Mar. 24, 1825
Do earth	John R. Failing	Canajoharie, N. Y.	June 13, 1827
do	Do	Do	Aug. 25, 1828
Bridges	Charles W. Peale	Pennsylvania	Jan. 21, 1797
Do	Charles Fowler	Do	Feb. 24, 1797
Do	John Stickney	Massachusetts	June 3, 1797
Do	Timothy Palmer	Do	Dec. 17, 1797
Do	Theo. Burr	-	Feb. 14, 1806
Do	Thomas Pope	New York	April 18, 1807
Do	James Finley	Fayette co., Pa.	June 17, 1808
Do	John Templeman	Alleghany co., Md.	Aug. 16, 1808
Do	Jos. J. Dey ster	Philadelphia, Pa.	Feb. 23, 1810
Do	John Templeman	Georgetown, D. C.	Mar. 6, 1810
Do	Jona. Jessup	Yorktown, Pa.	July 1, 1811
Do	Richard Crosbie	Newark, N. J.	Feb. 17, 1812
Do	Lewis Wernwag	Pennsylvania	Mar. 28, 1812
Do	Benjamin Connor	Portsmouth, N. H.	April 23, 1812
Do	George Tabb	Martinsburg, Va.	Feb. 23, 1816
Do	Theo. Burr	Burr Haven, Pa.	April 3, 1817
Do	Naphthali Bishop	Barre, Vt.	Jan. 11, 1819
Do	John Bragg	Montreal, Canada	Jan. 4, 1820
Do	Ithiel Town	Fayetteville, N. C.	Jan. 28, 1820

LIST OF PATENTS—LAND WORKS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Bridges, wooden aqueduct, for canals	Marshall Lewis	Chenango, N. Y.	April 12, 1820
Do	William Woodmansee	Kingston, N. Y.	Mar. 6, 1827
Do	Thomas P. Blakewell	Pittsburg, Pa.	May 15, 1827
Do	Lewis Wernwag	Jefferson co., Va.	Dec. 22, 1829
Do with draws	Garnier Wilkinson	White Creek, N. Y.	May 5, 1827
Canals, machine for excavating	Ichabod L. Skinner	Hartford, Ct.	May 3, 1820
Do digging	John Humes	Richmond, Va.	Nov. 10, 1821
Do do	Jer. Brainard	Rome, N. Y.	Feb. 10, 1826
Do excavating	Lot Forrester	Ridgefield, Ct.	May 10, 1826
Do do	George Hendricks	Urbana, Ohio	Aug. 5, 1829
Carriage, railway	Charles Williams	Richmond, Va.	Jan. 18, 1820
Do do	Richard P. Morgan	Stockbridge, Mass.	July 27, 1827
Do do	Ross Winans	Vernon, N. J.	Oct. 11, 1828
Do do	William Howard	Baltimore, Md.	Nov. 22, 1828
Do do	Isaac Knight	Do	Mar. 18, 1829
Do rail road	John L. Sullivan	Philadelphia, Pa.	April 6, 1829
Do for removing heavy buildings	Ephraim Bowen	Ledyard, N. Y.	April 9, 1829
Do cylindrical railway	Peter Fleming	Albany, N. Y.	May 4, 1829
Do self adapting railway	James Wright	Columbia, Pa.	Sept. 10, 1829
Do rail road	Hugh Finlay	Baltimore, Md.	Oct. 27, 1829
Do do	John J. Reekers	Do	Dec. 11, 1829
Do carts, chain and railway, for levelling hills	John H. Morrison	Boscawen, N. H.	Sept. 28, 1813
Do wagons, &c., machine for loading	Noah Osborn	Fairfield, Ct.	May 23, 1826
Do for removing earth	Jer. Price	Lockport, N. Y.	May 18, 1827
Do self loading	Waldren Beach	Philadelphia, Pa.	Feb. 5, 1828

Cartridges for blasting rocks, &c.		John B. Ives	Lebanon, Pa.	July 17, 1826
Cellars, vaults, &c.		Ezra Ludlow	New York	Dec. 14, 1824
Do	do	Henry Hallack	Do	Oct. 24, 1826
Curb or case for wells		Job Copperhwaite, sr.		April 13, 1809
Earth, raising and removing		Jos. Platt		May 4, 1805
Do machine for removing		Jacob Welsh	Boston, Mass.	May 6, 1805
Do do		Ichabod L. Skinner & Sam'l. F. Tooker	Hartford, Ct.	Mar. 23, 1820
Do do		Orange H. Dibble	Niagara co., N. Y.	Feb. 20, 1824
Do		Jer. Bailey	Philadelphia, Pa.	Mar. 21, 1825
Do		William H. Doll	Harrisburg, Pa.	May 29, 1826
Do		Pierson Reading	Trenton, N. J.	June 1, 1826
Do		Cyrus Barnard	Lynn, Pa.	July 14, 1826
Do		Oliver Phelps	Lansing, N. Y.	July 16, 1827
Do		James Richmond	Hudson, N. Y.	June 28, 1817
Excavating plough		Darius Comstock	Lockport, N. Y.	
Do machine		Richard Weems	Maryland	Mar. 15, 1825
Fencing		William Cooley	Bolton, Ct.	Mar. 16, 1801
Do of clay posts		Othello Church	Friendship, N. Y.	May 27, 1825
Do grounds, &c.		Edward Pitkins	E. Hartford, Ct.	July 3, 1823
Do repairing		Paulus Hedd	New York	Dec. 13, 1828
Do iron		Edward Clark	Philadelphia, Pa.	Dec. 18, 1828
Forts		H. B. Chew	Baltimore, Md.	April 2, 1812
Friction wheels for rail road carriages		Jer. Brainard	Canaan, N. Y.	April 9, 1829
Gate, turnpike		William Martin	Windham co., Ct.	April 16, 1810
Do mortice water lock		Daniel Rogers	Little Falls, N. Y.	Jan. 15, 1820
Do paddle for canal lecks		Jac. Van Dorn	Glenm, N. Y.	Mar. 17, 1826
Do safety, for canals		Daniel Rogers	Little Falls, N. Y.	May 14, 1827
Do for locks of canals		Thomas Oxley	Norfolk, Va.	Jan. 4, 1828
Land, machine for clearing		Josiah White	Philadelphia, Pa.	April 18, 1821
Locks for canals	do	George Bender	New York	Oct. 19, 1819
Do				Aug. 26, 1822

LIST OF PATENTS—LAND WORKS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Locks, canal, saving water in	-	Wilmington, Del.	Nov. 27, 1823
Do do preserving	-	Lebanon, Pa.	July 10, 1826
Locomotive carriage for inclined planes, &c.	-	Harsimus, N. J.	Sept. 11, 1829
Do engine	-	Baltimore, Md.	Dec. 10, 1828
Mile mark, cast iron	-	New York	Jan. 13, 1825
Moulds for making stone posts for fences	-	Gloucester, N. J.	Oct. 14, 1815
Pile driving for bridges	-	Concord, Mass.	Mar. 10, 1791
Plane, double inclined, for canals	-	Warren, Pa.	April 15, 1825
Do inclined, for transporting carriages	-	Henrico co., Va.	April 9, 1828
Posts, boring holes in	-	Hanover, Pa.	Dec. 21, 1819
Rail roads, constructing	-	Hoboken, N. J.	June 8, 1824
Do do	-	Do	Oct. 23, 1824
Do single	-	Boston, Mass.	May 6, 1825
Do forest	-	Henry Sergeant & T. Henry Pinkers & T.	
Do and cars	-	London, England	April 27, 1826
Do and carriages	-	Columbia, Pa.	April 17, 1829
Do for carriages to turn out and in	-	Baltimore, Md.	June 11, 1829
Railways	-	Columbia, Pa.	June 11, 1829
Do	-	Boston, Mass.	Nov. 16, 1821
Do with a lift of 16 feet	-	Do	Mar. 15, 1825
Do	-	Harrisburg, Pa.	May 6, 1826
Do portable, endless	-	Providence, R. I.	June 6, 1826
Roads, roller or wheel, and carriages for the same	-	New York	Sept. 15, 1826
Do	-	Washington, D. C.	Mar. 16, 1829

Rocks, machine for removing		May 18, 1798
Do do boring under water		Aug. 24, 1801
Do do drilling		
Do do boring	boring	
Do do blowing		
Do do blasting		
Do do boring		
Do do do		
Scraper or shovel		
Do team shovel	team shovel	
Do shovel; excavating		
Do do team		
Do metallic		
Sign or guide boards		
Stairs for bridges or ferries		
Streets, roads, &c., cleaning		
Stumps, machine for raising		
Do do do	do	
Do do do	do	
Do do do	do	
Submarine passage		
Telegraph		
Do domestic		
Do Transporting weights		
Do and conveyance machine		
Trees, machine for tearing up		
Massachusetts		
Isaac Lazell	-	May 18, 1798
John B. Avelhé	-	Aug. 24, 1801
Elihu Jones and P. White		
John Sanford	Brookfield, Mass.	Dec. 21, 1809
John M. Syme	Sharon, Ct.	Dec. 10, 1813
Benoni Kinyon	Hillsdale, N. Y.	Dec. 12, 1816
Ephraim Gilbert	Rochester, N. Y.	Mar. 15, 1819
Israel Overall	Liberty, Ten.	July 22, 1823
Nathan Whiting	Chester, Vt.	Mar. 14, 1828
Elisha Case	Canton, Ct.	Mar. 19, 1819
Thomas Pierce	Hartwick, N. Y.	April 23, 1822
Gideon Davis	Georgetown and Lockport, N. Y.	Mar. 3, 1825
Jer. Price	Salina, N. Y.	May 12, 1827
Oliver Teal	Raymond, Mass.	
Stanley, Carter	New York	Dec. 8, 1829
David Dunham	Do	Nov. 25, 1829
John Tucker	New Hampshire	Jane 28, 1814
Alexander Craig	Clermont, N. H.	Nov. 10, 1819
David Stone	Bowdoinham, Me.	April 15, 1807
Abieza H. Whitney	Jackson, N. Y.	July 27, 1809
Abijah Pratt	New York	Mar. 15, 1826
John Staples, jr.	Massachusetts	Aug. 17, 1827
John Grout, jr.	Baltimore, Md.	Mar. 18, 1801
William Shultz	Boston, Mass.	Oct. 24, 1800
Daniel Pearson	Charleston, S. C.	June 14, 1809
James L. Elford	Brookfield, Vt.	Mar. 2, 1822
James Cornell	Baltimore, Md.	June 18, 1822
John J. Reekers		Dec. 24, 1824
Salmon Gray	St. Lawrence co., N.Y.	July 21, 1828
		July 15, 1815

LIST OF PATENTS—LAND WORKS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Trees, machine for sawing, called the portable horse sawing machine	David Pierce	Poughkeepsie, N. Y.	April 3, 1829
Wagon for removing earth	John Owings	Baltimore, Md.	Aug. 27, 1824
Water, mode of obtaining	Timothy Davis	Lawrence towns' p, Ia.	April 14, 1828
Wells, sinking in or under water	Peleg Faston	Nantucket, Mass.	Feb. 1, 1810
Do	Eber Hilyard	Philadelphia, Pa.	Sept. 10, 1817
Do	Tobias Ruffner	Kenhawa, Vä.	Dec. 22, '818
Wharves, constructing	James Buller	Baltimore, Md.	Sept. 9, 1813

LIST OF PATENTEEs—LAND WORKS.

NAMES OF PATENTEEs.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Aveillé, John B.	-	Machine for boring rocks under water	-
Butler, Anthony	Vermont	Boring posts, &c.	-
Burr, Theo.	-	Bridges	Nov. 7, 1811
Do	-	Do	Feb. 14, 1806
Bishop, Naphtali	Burr Haven, Pa.	Barre, Vt.	April 3, 1817
Bragg, John	-	Montreal, Canada	Jan. 11, 1819
Bakewell, Thomas P.	-	Pittsburg, Pa.	Jan. 4, 1820
Brainard, Jer.	Rome, N. Y.	Canals, machine for digging	May 15, 1827 Feb. 10, 1826

Bowen, Eph.	Ledyard, N. Y.	Carriage for removing heavy buildings	April 9, 1829
Beach, Waldren	Philadelphia, Pa.	Cart, self loading	Feb. 5, 1828
Bailey, Jer.	-	Earth, raising and removing, called the ne plus ultra	Mar. 21, 1825
Barnard, Cyrus	Lynn, Pa.	Do machine for raising	July 14, 1826
Brainard, Jer.	Canaan, N. Y.	Gate, turnpike	April 16, 1810
Bender, George	New York	Locks for canals	Aug. 26, 1822
Boston, Edward	Gloucester, N. J.	Moulds for making stone posts for fences	Oct. 14, 1815
Baldwin, Ethan	Harrisburg, Pa.	Railways with a lift of 16 feet	May 6, 1826
Brown, J., and G. W.	Providence, R. I.	Railways	June 6, 1826
Robinson	Baltimore, Md.	Wharves, constructing	Sept. 9, 1813
Butler, James	Hillsdale, N. Y.	Bogging machine	Feb. 22, 1827
Collins, Squire	-	Boring for water	Nov. 1, 1803
Cook, Valentine	-	Bridges, rolling draw	Feb. 17, 1812
Croshie, Richard	Newark, N. J.	Do	April 23, 1812
Connor, Benjamin	Portsmouth, N. H.	Curb, or case for wells	April 13, 1809
Copperthwaite, Job, sr.	Lockport, N. Y.	Excavating plough	Mar. 15, 1825
Comstock, Darius	Bolton, Ct.	Fencing of clay posts	May 27, 1805
Cooley, William	Friendship, N. Y.	Do grounds, &c.	July 3, 1823
Church, Othello	Philadelphia, Pa.	Forts	April 2, 1812
Clark, Edward	Baltimore, Md.	Friction wheels for rail road carriages	April 9, 1829
Chew, H. B.	Hanover, Pa.	Boring holes in posts	Dec. 21, 1819
Corbett, James	Canton, Ct.	Scraper or team shovel	April 23, 1822
Case, Elisha	Raynham, Mass.	Sign or guide boards	Nov. 25, 1829
Carter, Stanley	New Hampshire	Stumps, machine for raising	April 15, 1807
Craig, Alex'r	Brookfield, Vt.	Transporting weights	Dec. 24, 1824
Cornell, James	New Brunswick, N. J.	Boring for water	Mar. 24, 1825
Disbrow, Levi	Philadelphia, Pa.	Bridges and other architectural work	Feb. 23, 1810
Deyster, Joseph J.	-	Earth, machine for removing	Feb. 20, 1824
Dibble, Orange H.	Niagara co., N. Y.	Do do do	May 29, 1826
Doll, William H.	Harrisburg, Pa.		

LIST OF PATENTEES—LAND WORKS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Davis, Gideon, and Jer. Price	Georgetown, D. C. Lockport, N. Y.	Scraper or shovel, team Stairs for bridges or ferries	May 12, 1827 June 28, 1814
Dunham, David	New York	Mode of obtaining water	April 14, 1828
Davis, Timothy	Lawrence town ^p , Ind.	Telegraph	June 18, 1822
Elford, James L.	Charleston, S. C.	Wells, sinking in or under water	Feb. 1, 1810
Easton, Peleg	Nantucket, Mass.	Boring earth	June 13, 1827
Failing, John R.	Canajoharie, N. Y.	Do do	Aug. 25, 1828
Do	Do	Bridges	Feb. 24, 1797
Fowler, Charles	Pennsylvania	Do	June 17, 1808
Finley, James	Fayette co., Pa.	Canals, machine for excavating	May 10, 1826
Forrester, Lot	Ridgefield, Ct.	Carriage, cylindrical railway	May 4, 1829
Flemming, Peter	Albany, N. Y.	Do rail road	Oct. 27, 1829
Finlay, Hugh	Baltimore, Md.	Locks, saving water in canal	Nov. 27, 1823
Fairlamb, Jonas P.	Wilmingtn, Del.	Canal locks, preserving	July 10, 1826
Guildford, Simeon	Lebanon, Pa.	Railway	Mar. 5, 1825
Gray, Ed.	Boston, Mass.	Roads, roller or wheel, and carriages for the same	Mar. 16, 1829
Gardiner, John	Washington, D. C.	Boring rocks	July 22, 1823
Gilbert, Ephraim	Rochester, N. Y.	Telegraph	Oct. 24, 1800
Grout, John, jr.	Massachusetts	Trees, machine for tearing up	July 15, 1818
Gray, Salmon	St. Lawrence co., N.Y.	Canals, machine for digging	Nov. 10, 1821
Haines, John	Richmond, Va.	Do do	Aug. 5, 1829
Hendriks, George	Urbana, O.	Railway carriage	Nov. 22, 1828
Howard, William	Baltimore, Md.	Cellars, vaults, &c.	Oct. 24, 1826
Hallack, Henry	New York	Fencing, iron	Dec. 18, 1828
Hed, Paulus	Do		

Howard, William	Baltimore, Md.	Locomotive engine	Dec. 10, 1828
Hilyard, Eb.	Philadelphia	Wells, sinking	Sept. 10, 1817
Jessup, Jona.	Yorktown, Pa.	Bridges, balance	July 1, 1811
Ives, John B.	Lebanon, Va.	Cartridges for blasting rocks, &c.	July 17, 1826
Jones, Elihu, and P. White	Brookfield, Mass. Baltimore, Md.	Machine for drilling rocks	Dec. 21, 1809
3 ^o Knight, Isaac	Do	Railway carriage	Mar. 18, 1829
Do	Hillsdale, N. Y.	Rail roads and carriages	June 11, 1829
Kinyon, Benoni	Chenango, N. Y.	Rocks, blasting	Mar. 15, 1819.
Lewis, Marshall	New York	Bridges for canals, wooden aqueduct	April 12, 1820
Ludlow, Ezra	Massachusetts	Cellars, vaults, &c.	Dec. 14, 1824
Lazell, Isaac	Stockbridge, Mass.	Machine for removing rocks	May 18, 1798
Morgan, Richard P.	Boscawen, N. H.	Railway carriage	July 27, 1827
Morrison, John H.	Windham, Ct.	Carts for levelling hills, chain and railway	Sept. 28, 1813
Martin, William	Fairfield, Ct.	Gate mortise, water lock	Jan. 15, 1820
Osborn, Noah	Norfolk, Va.	Carts, wagons, &c., machine for loading	May 23, 1826
Oxley, Thomas	Harsimus, N. J.	Land, machine for clearing	April 18, 1821
Olcott, Sands	Liberty, Ten.	Locomotive carriage for inclined planes, &c.	Sept. 11, 1829
Overall, Israel	Baltimore, Md.	Rock, boring	Mar. 14, 1828
Owings, John ^q	Pennsylvania	Wagon for removing earth	Aug. 27, 1824
Peale, Charles W.	Massachusetts	Bridges	Jan. 21, 1797
Palmer, Timothy	New York	Do	Dec. 17, 1797
Pope, Thomas	Lockport, N. Y.	Do	April 18, 1807
Price, Jer.	Albany, N. Y.	Carts for removing earth	May 18, 1827
Platt, Joseph	Lansing, N. Y.	Earth, raising and removing	May 4, 1805
Phelps, Oliver,	E. Hartford, Ct.	Earth from canals, hauling	July 16, 1827
Pitkins, Edward	London, England	Fencing, repairing	Dec. 13, 1828
Pinkus, Hy. and T. R.	New York	-	April 27, 1826
Williams	Hartwick, N. Y.	Rail roads, forest	Sept. 15, 1826
Price, Jer.	-	Railways, endless portable	March 3, 1825
Pieres, Thomas	-	Scraper or excavating shovel	-

LIST OF PATENTEES—LAND WORKS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Pratt, Abijah	Jackson, N. Y.	Stumps, machine for raising	Aug. 17, 1827
Pearson, Daniel	Boston, Mass.	Telegraph, domestic	Mar. 2, 1822
Pierce, David	Poughkeepsie, N. Y.	Machine for sawing trees, called the portable horse saw	
Reekers, John J.	Baltimore, Md.	Carriage, rail road	
Reading, Pierson	Trenton, N. J.	Earth, machine for removing	April 3, 1829
Richmond, James	Hudson, N. Y.	Excavating plough	Dec. 11, 1829
Rogers, Daniel	Little Falls, N. Y.	Gate, paddle for canal lock	June 1, 1826
Do	Do	Gate for locks of canals	
Robinson, M.	Henrico co., Va.	Plane for transporting carriages, inclined	
Reekers, John J.	Baltimore, Md.	Transporting and conveyance machine	Dec. 28, 1817
Ruffner, Tobias	Kenawha, Va.	Wells, sinking	Mar. 17, 1826
Stickney, John	Massachusetts	Bridges	Jan. 4, 1828
Skinner, Ichabod L.	Hartford, Ct.	Canals, machine for excavating	April 9, 1828
Sullivan, John L.	Philadelphia, Pa.	Carriage, rail road	
Skinner, Ichabod L., &	Hartford, Ct.	Earth, machine for removing	July 21, 1828
Samuel F. Tooker	New York	Mark, cast iron mile	Dec. 22, 1818
Summers, William M.	Concord, Mass.	Pile driving for bridges	June 3, 1797
Stone, John	Hoboken, N. J.	Rail roads, constructing	May 3, 1820
Stevens, John	Do	Do	Oct. 23, 1824
Do	Boston, Mass.	Do	May 6, 1825
Sargeant, Henry	Sharon, Ct.	Machine for boring rocks	Dec. 10, 1813
Sanford, John		Blowing rocks	Dec. 12, 1816
Syme, John M.			July 27, 1809
Stone, David	Clermont, N. H.	Stumps, machine for raising	

Staples, John, jr.	New York	Submarine passage
Shultz, William	Baltimore, Md.	Telegraph
Templeman, John	-	Bridges, improvement on Finley's chain
Do	-	Do
Tabb, George	Georgetown, D. C.	Do
Town, Ithiel	Martinsburg, Va.	frame
Tanner, Arb'd	Fayetteville, N. C.	Do
Teal, Oliver	Warren, Pa.	Plane for canals, double inclined
Tucker, John	Salina, N. Y.	Scraper, metallic
Van Dorn, Jacob	New York	Streets, roads, &c., cleaning
Wernwag, Lewis	Glenn, N. Y.	Gate for canals, safety
Woodmansee, Wm.	Pennsylvania	Bridges
Wernwag, Lewis	Kingston, N. Y.	Do
Wilkinson, Garner	Jefferson co., Pa.	Do
Williams, Charles	White Creek, N. Y.	Do with draws
Winans, Ross	Richmond, Va.	Carriage railway
Wright, James	Vernon, N. J.	Do
Weish, Jacob	Columbia, Pa.	Self adapting railway
Weems, Richard	Boston, Mass.	Earth, machine for removing
White, Josiah	Maryland	Fencing
Wright, James	Philadelphia, Pa.	Locks for canals
Do	Columbia, Pa.	Rail roads and cars
Williams, Charles	Boston, Mass.	Do for carriages to turn out and in
Whiting, Nathan	Chester, Vt.	Railways
Whitney, Abieza H.	Bowdoinham, Me.	Scraper or shovel
		Stumps, machine for raising
		Mar. 18, 1801
		June 14, 1809
		Aug. 16, 1808
		March 6, 1810
		Feb. 23, 1816
		Jan. 28, 1820
		April 15, 1825
		Dec. 8, 1829
		Nov. 10, 1819
		May 14, 1827
		Mar. 28, 1812
		Mar. 6, 1827
		Dec. 22, 1829
		May 5, 1827
		Jan. 18, 1820
		Oct. 11, 1828
		Sept. 10, 1829
		May 6, 1805
		Mar. 16, 1801
		Oct. 19, 1819
		April 17, 1829
		June 11, 1829
		Nov. 16, 1821
		Mar. 19, 1819
		Mar. 15, 1826

LIST OF PATENTS—COMMON TRADES.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
			AUG. 23, 1800
Bark, machine for cutting Bark, machine for cutting Bark, machine for cutting, softening hides, fulling cloth, and a grist mill	Jona. Kilborn -	Connecticut -	Aug. 23, 1800
Barrels, kegs, &c., machinery for making	Chester Griswold and Hosea E. Potter -	Otsego, N. Y. -	Nov. 20, 1810
Do casks, &c.	N. Goodall and N. Tainter -	Watertown, N. Y. -	June 9, 1828
Bedstead, improvement in the	Jno. Hale -	Oakum, Mass. -	June 21, 1828
Do do	Ludwig C. Kuhn -	Philadelphia, Pa. -	Aug. 10, 1791
Bedstead, improvement in the	Ward Gilman & Wm. Jackson -	Portsmouth, N. H. -	Mar. 19, 1804
Do do	Peter T. Walcott -	Monmouth co., N. J. -	Jan. 6, 1812
Do do	Jno. R. Cox -	Philadelphia, Pa. -	Oct. 16, 1812
Do do	Jos. Homer -	New York -	Jan. 28, 1818
Do do	Daniel Powles -	Baltimore, Md. -	Oct. 31, 1821
Do do	Peregrine Williamson -	Do -	Dec. 6, 1821
Do do	Do -	Do -	Oct. 17, 1822
Do do	Leonard Foster -	Boston, Mass. -	Feb. 16, 1824
Do do	Do -	Do -	June 25, 1824
Do do	O. R. Herbert -	Mount Pleasant, N.J. -	July 14, 1824
Do do	Isaac Cooper -	Baltimore, Md. -	Feb. 22, 1825
Do do	Charles Adams -	Boston, Mass. -	Feb. 26, 1825
Do do	Do -	Philadelphia, Pa. -	Mar. 18, 1825
Do do	Do -	Chambersburg, Pa. -	Nov. 2, 1825
Do do	Do -	Do -	Nov. 5, 1825

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Bellows, improvement in the, japanned	R. B. Richardson	Philadelphia, Pa.	Aug. 22, 1817
Do do	-	Pomfret, N. Y.	Mar. 28, 1818
Smith's -	Alonson Holmes	St. Albans, Vt.	Jan. 24, 1824
nose, preventing burning	James Dodge, jr.	Philadelphia, Pa.	April 14, 1825
furnace -	Henry Dotterer	Providence, R. I.	Sept. 9, 1825
Do do	Josiah J. Eddy	Pittsburgh, N. C.	June 11, 1827
Do do	Jess Dixon -	Mount Pleasant, N. Y.	April 3, 1828
Do do	Elijah Brady	New York	April 4, 1829
Do do	Wm. S. Jacks	Huntington, Pa.	June 11, 1829
Bench, improvement in the, tailors'	A. W. A. McPharin	New Brunswick, N. J.	Oct. 3, 1808
Do do	Wm. Burris -	Windsor, Ct.	Aug. 12, 1815
Do do	Joel Soper -	Ontario county, N. Y.	June 7, 1817
Biscuit, improvement in the machine for making	Baruck Way	Westminster, Md.	June 9, 1818
Book binding, improvement in	Ino. Greenholt	New Orleans	Sept. 21, 1815
Do do	Wm. Liddle	Philadelphia, Pa.	July 27, 1812
Do do	Ino. T. Sutherland	Do	Sept. 14, 1812
Do do	Robert De Silver	Do	Aug. 26, 1818
Do do	Ino. Meer -	Germantown, Pa.	Aug. 8, 1829
Boots, improvement in manufacturing	Jesse Torrey	Philadelphia, Pa.	Aug. 10, 1791
Boots and shoes, do	Peter Gordon	Massachusetts	April 10, 1800
Do do	Dean Howard	Philadelphia, Pa.	July 16, 1806
Do do	Ino. Bedford	Lexington, Mass.	Feb. 10, 1807
Do do	Samuel Millikin	Philadelphia, Pa.	Feb. 11, 1807
Do do	Wm. Montgomery	Do	May 20, 1807
Do do	Wm. Young	Massachusetts	Jan. 9, 1808
Do do	Eli Barnum -		

Do	do	do	do	do	Samuel Chamberlain	Boston, Mass.	Nov. 21, 1803
Do	do	do	do	do	Eleazer Lundy	New York	Aug. 14, 1810
Do	do	do	do	do	Jno. Morgan	Philadelphia, Pa.	April 10, 1811
Do	do	do	do	do	Jer. Sibley	New York	April 25, 1811
Do	do	do	do	do	Samuel B. Hitchcock	Homer, N. Y.	July 30, 1811
Do	do	do	do	do	and John Bement	Baltimore, Md.	Oct. 21, 1811
Do	do	do	do	do	Jno. Vernon	Smithfield, N. Y.	Feb. 4, 1812
Do	do	do	do	do	Nathaniel L. Moore	Leicester, Mass.	Mar. 14, 1812
Do	do	do	do	do	Elijah Thayer	Norfolk, Ct.	May 23, 1812
Do	do	do	do	do	Robert U. Richards	Boston, Mass.	June 23, 1812
Do	do	do	do	do	Wm. Francis	Philadelphia, Pa.	July 20, 1812
Do	do	do	do	do	Wm. G. Crease and	Norway, Mass.	Aug. 28, 1812
Do	do	do	do	do	J. J. Morgan	Fredericktown, Md.	Dec. 15, 1815
Do	do	do	do	do	Ephraim Twombly	Connecticut	Feb. 24, 1816
Do	do	do	do	do	Joshua Hall	Baltimore, Md.	Sept. 24, 1816
Do	do	do	do	do	Samuel Eells	New York	April 16, 1817
Do	do	do	do	do	Pierre Azam	Baltimore, Md.	June 10, 1817
Do	do	do	do	do	Israel Pinkney	Philadelphia, Pa.	June 2, 1818
Do	do	do	do	do	Wm. Young	Montkton, Vt.	Mar. 3, 1821
Do	do	do	do	do	Jno. Bedford	New York	Aug. 14, 1821
Do	do	do	do	do	Simeon Hart	Boston, Mass.	Dec. 31, 1821
Do	do	do	do	do	Daniel Peck	Smithfield, R. I.	Dec. 28, 1822
Do	do	do	do	do	Aaron Dana	Salem, N. J.	Jan. 12, 1824
Do	do	do	do	do	Arnold Buffum	Lancaster, O.	July 27, 1824
Do	do	do	do	do	Eben. Martin	Unadilla, N. Y.	Mar. 25, 1825
Do	do	do	do	do	Eben. G. Pomeroy	Philadelphia, Pa.	Dec. 14, 1825
Do	do	do	do	do	Ino. Eells, Jr.	Hadfield, Mass.	April 5, 1826
Do	do	do	do	do	Patrick G. Nagle	Leicester, Mass.	June 9, 1826
Do	do	do	do	do	Ino. Trask	Elijah Thayer	

LIST OF PATENTS—COMMON TRADES—Continued.

Boxes, making, by machinery for sugar

Bread, mode of making	Paul Pearson & John Howe	Alna, Me.	April 15, 1828
Do do ship, &c.	William Banks	Connecticut	Dec. 14, 1798
Do do	Jehosaphat Starr	Middletown, Ct.	Jan. 8, 1813
Do finisher	George Richards	Manlius, N. Y.	Feb. 8, 1813
Do biscuit, &c., machine	Ephm. Treadwell	Philadelphia, Pa.	Jan. 10, 1820
Brick making	David Ridgway	New York	May 18, 1826
32 Do do	Chris. Colles	Philadelphia, Pa.	Mar. 7, 1792
Do and tile	Samuel Bronwer	New York	Jan. 26, 1793
Do do	Apollos Kinsley	Massachusetts	Aug. 17, 1793
Do do	Do	New York	Feb. 1, 1793
Do machine for tempering mortar for	John Hawkins	New Jersey	July 11, 1797
Do and tile machine	George Hadfield	Washington, D. C.	May 15, 1800
Do do	Richard Mansfield	Connecticut	Oct. 28, 1800
Do machine	Ezra Miller	New York	July 17, 1802
Do do	Nathaniel Miller and Phil. W. Miller	Massachusetts	Jan. 5, 1804
Do do	John F. Gould	Mar. 1, 1806	
Do fire, machine	Eben. Jenks	Canaan, Ct.	April 18, 1807
Do machine	Asa Ross	Cazenovia, N. Y.	Sept. 21, 1808
Do do and tile	John F. Gould	Newburyport, Mass.	Oct. 17, 1809
Do do or artificial stone without burning	James B. Harris	Philadelphia, Pa.	Aug. 21, 1810
Do do and tile	Daniel French	New York	Aug. 22, 1810
Do do	James Gregg	New Hampshire	May 7, 1811
Do do and tile	James McDonald	New York	April 1, 1812
Do and mortar, alternate lift	Benj. Dearborn	Boston, Mass.	June 20, 1816
Do making	William Mitchell	Henrico, Va.	June 24, 1816
Do air conducting for stoves	Eph'm Treadwell	Essex co., Mass.	Sept. 12, 1816
Do making, and clay grinding	William Mitchell	Richmond, Va.	Mar. 26, 1817
Do	Do	Spring Hill, Va.	May 28, 1817

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Brick making	Adam Stewart	Baltimore, Md.	April 8, 1819
Do	Seth Belknap	Newbury, N. Y.	May 17, 1821
Do and tile machine	J. E. Stubbs and J. Bonner	Cincinnati, O. Point Coupee, La.	May 10, 1822 Nov. 23, 1822
moulding machine	Honore Mane	Danvers, Mass.	May 29, 1823
Do treading	Briggs R. Reed	Philadelphia, Pa.	July 21, 1823
fire proof	Tim. Caldwell	Landry parish, La.	Aug. 7, 1823
Do machine	John Menee	Louisiana	Feb. 11, 1824
Do	Seth Lewis	Ogden, N. Y.	Mar. 11, 1824
Do	James Lee	Ogden, N. Y.	June 11, 1825
Do	Jas. Lee and J. Ring	Do	June 21, 1825
Do	Tim. P. Kneeland	Baltimore, Md.	Sept. 27, 1825
Do	Richard W. Smith	Fayetteville, Me.	May 6, 1826
Do	David Watson	Fayette, Me.	June 9, 1826
Do	Ezra Fisk	Rochester, N. Y.	July 21, 1827
Do	E. Mann & G. Hill	Fayette, Me.	Sept. 8, 1827
frame, portable, for raising	E. Fisk & B. Hinkley	Richmond co., Geo.	Feb. 17, 1827
and tile machine	Benj. K. Hill	Atchester, Vt.	Mar. 21, 1827
Do	David Rising	Colchester, N. Y.	Jan. 29, 1828
Do	Do	Gardiner, Me.	Mar. 19, 1828
moulding machine	David Flagg	Painesville, O.	June 7, 1828
Do	Eben. Duty and D. W. Duty	-	-
Do	improvement on McDonald's	-	-
Do	James McDonald and Rob. McQueen, jr.	New York	Nov. 19, 1828

Do and tile machine		James Wood	Rockland co., N. Y.	March 3, 1829
Do machine		John S. Hanna	Mercer, Pa.	Nov. 23, 1829
Bridles, improvement in		Rob. Smether	Orange co., Va.	Dec. 10, 1812
Do do		Peter Laporte	Richmond, Va.	Aug. 15, 1822
Do do		Daniel H. Read	New York	Oct. 24, 1826
Bruising, beating, and cutting substances		Adam Britz	Philadelphia, Pa.	July 18, 1816
Buckle, mechanical spring		John Green	New York	May 20, 1807
Do cutting and finishing for harness		James Carman	Hudson, N. Y.	Oct. 12, 1814
Bulding houses to secure them from fire		Jos. Hadley	Morristown, Vt.	Feb. 3, 1819
Do for a school room		S. W. Taylor and J. W. Martin	Lowville, N. Y.	April 16, 1825
Do covering		Hazard Knowles	Colchester, Ct.	Oct. 10, 1828
Bureau dressing table		Nathaniel Perry	Boston, Mass.	Oct. 13, 1809
Bungs, machine for cutting		Alex. Donaldson	Salem, Mass.	Jan. 15, 1818
Butter, machine for making		B. G. Burts and Ger- shom Burts	New York	Feb. 27, 1807
Do	do	Zina Phinney	Greene co., N. Y.	March 4, 1814
Do	do	Isaac Shepherd	Merideth, N. Y.	May 28, 1818
Do machine for working and cutting curds		William Buck	Chatham, Ct.	Dec. 5, 1825
Carpentering, art of		Jer. Bailey	Philadelphia, Pa.	April 7, 1827
Easks, machine for making		Joseph Little	Hillshorough, N. H.	July 25, 1818
Do	do	Uri Emmons	Greene co., N. Y.	Jan. 8, 1823
Do	do	Wm. & Mar. Adams	Ogden, N. Y.	Jan. 24, 1828
Do application of steam to making		Jonah Thompson	Philadelphia, Pa.	Dec. 30, 1829
Churn, improvement in the		Isaac Baker	Massachusetts	Feb. 20, 1802
Do	do	Joel Pierce	New York	April 10, 1802
Do	do	Walter Kceler and J. Waring	Connecticut	June 23, 1803
Do	do	Levi Stephens	Do	May 8, 1804
Do	do	Abner Wing	Washington, N. Y.	May 26, 1806
Do	do	Reuben Buck	Baltimore, Md.	June 23, 1807

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Churn, improvement in the	Buel Cutter -	Washington, N. Y. -	Oct. 3, 1807
Do do	John Scripture -	Alford, Mass. -	Dec. 15, 1807
Do do	Simeon Hays -	Poultny, N. Y. -	Mar. 8, 1808
Do do	Nicholas King -	Washington, D. C. -	Mar. 10, 1808
Do do	Stephen Stackhouse -	Cazenovia, N. Y. -	Mar. 11, 1808
Do do	Wm. W. Townsend -	Sandy Hill, N. Y. -	Mar. 22, 1808
Do do	Daniel Pierpont -	New Haven, Ct. -	April 22, 1808
Do do	Aaron Reed -	Columbia co., N. Y. -	April 25, 1808
Do do	Nehemiah Howe -	Windham, Ct. -	April 25, 1808
Do do	Simeon B. Willard -	Bloomfield, N. Y. -	May 18, 1808
Do do	Dyer Cleaveland -	Sheffield, Mass. -	July 7, 1808
Do	Erastus Townsend -	Do -	July 11, 1808
Do do	John Bolton -	Canaan, N. Y. -	July 12, 1808
Do do	Daniel Parnelle -	Philadelphia, Pa. -	Aug. 2, 1808
Do do	Samuel Moon, jr. -	Dutchess co., N. Y. -	Sept. 8, 1808
Do do	John Devotie -	Downingtown, Pa. -	Oct. 24, 1808
Do do	Luther Jones -	Vernon, N. Y. -	Dec. 5, 1808
Do do	Ira Millington -	Canton, Ct. -	Dec. 10, 1808
Do do	Ezra G. Jones -	Warren, N. Y. -	Mar. 2, 1809
Do do	Hez. Walkerman -	Otsego, N. Y. -	April 21, 1809
Do do	George Votee -	Gr. Barrington, Mass. -	May 9, 1809
Do do	John McCord -	Berlin, Ct. -	May 10, 1809
Do do	Luther Thompson -	Washington, N. Y. -	June 13, 1809
Do do	Thomas Nicholson -	Sturbridge, Mass. -	June 24, 1809
Do	Nelson co., Ky. -	Aug. 10, 1809	

LIST OF PATENTS—COMMON TRADES.—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Whurn, improvement in the	William L. Frazer	Oxford, N. Y.	Mar. 19, 1819
Do do	John Hale	Hillborough, N. H.	Dec. 15, 1819
Do do	Adam Swart	Saratoga, N. Y.	April 9, 1821
Do do	G. F. Reeve and J. Ketcham	Orange co., N. Y.	Aug. 10, 1821
Do do	Benjamin Hayden, jr.	Trenton, N. J.	June 15, 1822
Do do	E. Brown & A. Keith	Winfield, N. Y.	June 19, 1822
Do do	Samuel Clarke	Morris co., N. Y.	Oct. 4, 1822
Do do	Abiram Baird	Schoharie co., N. Y.	Mar. 25, 1825
Do do	John P. Bortle	Claverack, N. Y.	April 19, 1825
Do do	Asa Humphrey	Gray, Me.	May 9, 1825
Do do	Ezra Waterhouse	Gardiner, Me.	Sept. 29, 1825
Do do	John G. Philip	Kinderhook, N. Y.	Feb. 15, 1827
Do do	Samuel L. Bagley	Hillsdale, N. Y.	Mar. 24, 1827
Do do	Levi Rosenkrans	Urbania, N. Y.	May 19, 1827
Do do	Nathan Whitney	Augusta, Me.	June 7, 1827
Do do	Daniel Sheldon	Poultney, N. V.	Sept. 13, 1827
Do do	Samuel H. Baker	Wells township, Pa.	Jan. 10, 1828
Do do	Edward Spain	Mount Holley, N. J.	April 23, 1828
Do do	Daniel Read	Slaterville, N. Y.	June 16, 1828
Do do	Jos. Hathaway	Canandaigua, N. Y.	Aug. 22, 1828
Do do	Benjamin Cashwa	Clear Spring, Md.	Jan. 24, 1829
Do do	Zuri S. Doty	Groton, N. Y.	Mar. 17, 1829
Do do	Cotton Foss	Perry, Ohio	June 11, 1829

Do	do	do	box	June 27, 1829
Do	do	do	do	Oct. 16, 1828
Do	do	do	do	Oct. 19, 1829
Do	do	do	do	Paris, N. Y.
Do	do	do	do	Auburn, N. Y.
Do	do	do	do	South Port, N. Y.
Do	do	do	lever power	New York
Do	do	do	labor saving	Goffstown, N. H.
Clamp for shoemakers				South Carolina
Clay, machine for cutting for tiles				Baltimore, Md.
Do	do	do	tempering	Summer, Me.
Do	do	do	grinding sand and	Brooklyn, Ct.
Collars for dress coals				Hartford, Ct.
Coopering, improvement in the machine for				Onondaga, N. Y.
Do	do	do		Watertown, N. Y.
Do	do	do		Sturbridge, Mass.
Do	do	do		Boston, Mass.
Corks, improvement in the machine for cutting				Philadelphia, Pa.
Do	do	do	do	Alexandria, D. C.
Cornice, brick				New York
Corsets				Do
Do				Philadelphia, Pa.
Crackers, machine for cutting and rolling				Hartford, Ct.
Cradle, improvement in the swing				Windsor, Ct.
Do	do	do		Hempstead, N. Y.
Do	do	do		Baltimore, Md.
Do	do	do	rockers and chair	New York
Do	do	do	self moving	New Haven, Ct.
Cushion,	do	do	elastic spring	Huntsville, Ala.
Cutting clothes				Philadelphia, Pa.
Do				Bath, Me.
Do			machine called the Variator	

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES	NAMES OF PATENTEES	RESIDENCE.	WHEN ISSUED.
Doors, locking	John Dillingham	Turner, Me.	June 2, 1825
Do preventing the tightness of	Daniel Fraser	New York	Dec. 12, 1825
Do constructing	Daniel Williams, Jr.	Colchester, Ct.	Oct. 11, 1828
Do fender for water and snow	William Cole & John Johnson	Randolph, Mass. Plainfield, Mass. Berlin, Ct.	Mar. 27, 1829 Oct. 17, 1829 Nov. 25, 1829
Do and window fastening	Stephen Hayward	New York	Nov. 16, 1797
Do machine for closing	Lynus Burwell	Hingham, Mass.	Nov. 1, 1804
Dough and paste breaking machine	Nathaniel Pettibone	Stonington, Ct.	Feb. 14, 1806
Do machine for breaking	Label Folger	Nantucket, Mass.	April 17, 1810
Do making	Geo. Richards	Pr. George's co., Va.	Feb. 28, 1818
Do breaking	Cromwell Barnard	Dedham, Mass.	April 23, 1822
Do kneading	Samuel Nixon	Ontario co., N. Y.	Dec. 11, 1820
Do do	T. S. Fisher and S. W. Talbott	Philadelphia, Pa.	Oct. 14, 1816
Do	Ralph Hunt	New York	Feb. 28, 1822
Dowelling headings for coopers	William Bowhay	Philadelphia, Pa.	May 16, 1826
Do instrument	Henry Brewer	Do	Aug. 13, 1805
Drawers for wearing	Charles Herwick	Philadelphia, Pa.	Feb. 6, 1807
Dresses for boys	John Mathews	Boston, Mass.	June 3, 1808
Dye woods, machine for rasping, sawing, and grinding	Do	Middlebury, Vt.	June 27, 1809
Do	Jesse Reed	Norfolk, Ct.	Aug. 13, 1810
Do	Ephm. Hubbard	Enosburg, Vt.	May 3, 1811
Do	Jedediah Richards, 3d	Springfield, Mass.	Mar. 1, 1814
Do	Samuel Stone	-	-
Do	Joseph Broad	-	-

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Harness trimmings and carriage ornaments -	- Wm. S. Robinson -	Taunton, Mass. -	Sept. 22, 1829
Hides, splitting and shaving -	- Nathl. P. Whiting -	Providence, R. I. -	April 25, 1810
Do breaking, hairing, &c. -	- Nathaniel Kirk and -	St. Clairsville, Ohio -	July 18, 1812
Do do fleshing, &c. -	- Samuel C. Clarke -	Hudson, N. Y. -	Oct. 15, 1812
Do machine for softening dry -	- T. E. Barker and S. -	Northampton, Mass. -	Dec. 30, 1812
Do do breaking -	- S. Fordham -	Bloomsbury, Pa. -	Feb. 8, 1819
Hides, machine for softening and distending -	- William Edwards -	Reading, Pa. -	Aug. 18, 1820
Do do breaking -	- Wm. M. D. Hasbrouck	Randolph co., N. C. -	Dec. 22, 1826
Hoops, machine for shaving out of split timber -	and Jac. Diefenback	Petersburg, Va. -	Mar. 17, 1810
Do do sawing -	Daniel Krauser -	Lockport, N. Y. -	May 1, 1828
Do do improvement on Slayton's -	Hez. S. Clarke -	Do -	July 31, 1828
Do do laths, staves, &c. -	David Shriver -	Do -	Aug. 19, 1828
Horse collars -	Phineas Slayton -	Pennsylvania -	April 10, 1800
Do shoes -	Nicholas Bratt -	Stephen Decatur and	Oct. 11, 1809
Do fetters -	Isaac Price, jr. -	William Tatham -	Jan. 15, 1818
Do frame, swinging, for shoeing -	Wm. Hottenstein -	Joseph Watson -	Nov. 8, 1820
Do machine for stopping a -	John B. Brown and	Joseph Kirk -	Mar. 20, 1821
Do shoes -	J. Farmer -	Peter Laporte -	
Do do and for oxen -	Peter Sternberg -	Boston, Mass. -	Mar. 11, 1822
Do blinds -	Seth Boyden -	Danube, N. Y. -	April 10, 1824
		Newark, N. J. -	April 10, 1824

Do shoes, cast iron, and oxen.	Stephen W. Whitman	Madison, Ohio	Nov. 4, 1825
Do do	Robert E. Horbart	Pottstown, Pa.	May 24, 1828
Houses, covering with tin plate, sheet iron, &c.	Richard S. Tilden	Lynchburg, Va.	Sept. 10, 1829
Inkstand, stone	Abm. H. Quincy	Boston, Mass.	Sept. 3, 1811
Do	Anson Haywood	Easton, Mass.	Nov. 23, 1818
Joint, carpenters' sliding (dove tail)	Geo. B. Raymond and Shadrack Trumbull	Suffield, Ct.	April 23, 1816
David Gleason and H. Frisbee	Elijah B. Clarke	Bethany, N. Y.	April 8, 1826
	Seth Parsons	Damascus, Pa.	Jan. 31, 1827
	Daniel Tomlinson	Parsonfield, Mass.	Oct. 25, 1810
	Herrick Aiken	Brookfield, Ct.	July 6, 1820
	James Bachelder	Brighton, Mass.	Mar. 12, 1823
	Do	Lancaster, N. H.	Nov. 9, 1824
	Freeman Palmer	Littleton, N. H.	Nov. 3, 1825
	Samuel Brook	New York	Mar. 17, 1826
	Luke Marble	Henrietta, N. Y.	Nov. 13, 1826
	Isaac H. Harrington	Albany, N. Y.	Mar. 28, 1828
	Walter Hunt	New York	June 26, 1828
	Isaiah Jennings	Do	Feb. 19, 1829
	William J. Dunn	Do	Mar. 17, 1829
	A. P. Howell	Cincinnati, O.	Aug. 18, 1829
	Levi Rice	Lockport, N. Y.	Oct. 9, 1827
	Benjamin K. Crandell	Do	July 23, 1828
	Pliny Earle	Massachusetts	Aug. 25, 1828
	Samuel Frothingham and George Harris	Middletown, Ct.	Dec. 6, 1803
	Samuel Parker	Billerica, Mass.	April 20, 1808
	Martin Fuller	Royalton, Vt.	July 9, 1808
	Seth Boyden	Foxborough, Mass.	July 29, 1808
			Jan. 7, 1809

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Leather, currying and finishing	Samuel Parker	Boston, Mass.	April 26, 1809
Do morocco, polishing and graining	Jac. Perkins	-	June 26, 1809
Do machine for striping	David Ridgeway	-	Oct. 26, 1809
Do process of, and machinery for stamping and staining	Robert Robinson	Newburyport, Mass.	Mar. 19, 1810
Do prickling machine	Robert U. Richards & Mills Richards	Norfolk, Ct. Boston, Mass.	April 24, 1810 July 12, 1811
Do splitting mill	Phineas Dow	Worcester, Mass.	Nov. 1, 1810
Do do and shaving skins	Philip White	New Lisbon, N. Y.	July 27, 1812
Do shaving	Frederick Woodward	Billerica, Mass.	April 5, 1813
Do do and splitting	Samuel Parker	West Chester co., N.Y.	April 2, 1814
Do uniting by metal or wooden pegs	Sidney B. Browne	Baltimore, Md.	Dec. 4, 1816
Do elastic water proof	Peter Lannay	-	
Do dying and polishing	Lemuel Hedge	Windsor, Vt.	July 23, 1819
Do shaving	J. P. Houston and O. Bacheider	Bedford, N. H.	April 11, 1825
Do machine for facilitating the sewing of	Henry Lye	Philadelphia, Pa.	Mar. 10, 1826
Do do dying and polishing	Samuel Couillard	Boston, Mass.	June 27, 1827
Do water proof	David Kizer	New York	Nov. 19, 1827
Do and cloth, water proof	J. L. Comstock	Hartford, Ct.	Jan. 21, 1828
Do machine for cutting	George P. Mitchell	Burlington, N. J.	May 15, 1828
Do water proof	Abrn. Straub	Milton, Pa.	June 30, 1828
Do preparing belt and picker	John J. Travis	Franklin, Ct.	Oct. 22, 1828
Do rolling	Harvey Paign	Alexander, N. Y.	Dec. 23, 1828
Do and morocco, polishing	Abel Bayard	South Reading, Mass.	Dec. 29, 1828

		Johnstown, N. Y.	Nov. 24, 1820
Do machine for finishing do splitting	-	Boston, Mass.	May 3, 1820
Do do	-	Do	May 31, 1822
Do do	-	Philadelphia, Pa.	Mar. 11, 1791
Marble, machine for cutting and polishing	-	New Jersey	Jan. 9, 1796
Do sawing	-	New York	July 2, 1796
Do do	-	Do	Feb. 16, 1797
Do cutting	-	West Stockbridge	April 9, 1810
Do or pipe stone turner	-	Do	April 10, 1810
Do and stone, cutting and polishing	-	Otsego, N. Y.	June 7, 1811
Do machine for sawing and polishing	-	Middlebury, Vt.	Aug. 14, 1822
Do do	-	New York	Nov. 1, 1825
Do grooving and beading	-	Do	Nov. 1, 1825
Do smoothing, polishing, &c.	-	West Chester, N. Y.	March 7, 1826
Do rubbing and scouring	-	Salem, N. Y.	Feb. 18, 1828
Do cutting, sawing, and polishing	-	Philadelphia, Pa.	July 19, 1811
Meat chopper	-	Hazial Smith	April 18, 1829
Do	-	Worcester, Mass.	Mar. 15, 1826
Mitre machine	-	Baltimore, Md.	April 22, 1812
Do occasions, applying hat trimmings to	-	Easton, Md.	April 1, 1815
Do manufacturing	-	Burlington, N. Y.	Nov. 22, 1823
Do in moulds	-	New York	-
Do	-	John J. Staples and William H. Cornell	Do
Do	-	Catharine Elliot	Do
Do	-	John Syms	Do
Morocco, dying and polishing	-	Moses Hall	Charlestown, Mass.
Mortar, machine for making	-	Daniel Hunt	Stanford, Ct.
Do moulding and pressing brick	-	John M. Brookings	Wiseasset, Me.
Do tub mill	-	James Parker	Gardiner, Me.

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Mortar machine, and for preparing or grinding apples -	T. H. Streeter and J. S. Wilbert	Chili, N. Y.	June 12, 1827
Mortising machine -	Simeon Glover & D. Parmelee	Newtown, Ct.	June 8, 1807
Do do do and tenoning -	Henry Parmelee	Killingworth, Ct.	Feb. 15, 1810
Do do do	Sylvanus Baldwin	Montpelier, Vt.	Mar. 17, 1810
Do do do	Nathan Mead and J. Cutal	Walpole, N. H.	Nov. 3, 1817
Do do do	Ezra Ripley	New York	Dec. 22, 1825
Do do do	Thomas Green	Manlius, N. Y.	April 12, 1826
Do do do	Simon Le Roy	Mexico, N. Y.	July 10, 1827
Do do do	John McClintic	Chambersburg, Pa.	Oct. 8, 1827
Do do do	Abel Greenleaf & H. Amidon	Mexico, N. Y.	Dec. 28, 1827
Do do do	John J. Kellogg	Richmond, N. Y.	Jan. 24, 1828
Do do do	William E. Marsh	Westfield town's p N. J.	April 18, 1828
Do do do	William Jackson and J. J. Speed, jr.	Speedville, N. Y.	Oct. 10, 1828
Do do do	Luther Davis	Northampton, Mass.	April 14, 1829
Do do do	Reuben Medley	Bloomfield, Ky.	July 7, 1829
Pales for fencing -	Reuben Hyde	Winchester, Mass.	April 19, 1822
Do do	Amos Miner	Camillus, N. Y.	April 25, 1823
Pegs, machine for making wooden	Thomas Rowell	Hartford, Vt.	Nov. 24, 1820
Do do cutting	Do	Do	Feb. 11, 1825
Do	Hez. Thurber	Painted Post, N. Y.	May 22, 1828

S. Beckwith, S. Beckwith, Jr., & Eleazer Beckwith -	Pegging machine	Westmoreland, N.Y.	Jan. 27, 1829
	Planing machine	Merrimack, N.H.	June 11, 1829
Do	and sawing bellows boards	Boston, Mass.	June 1, 1805
Do	and joining	New Haven, Ct.	June 1, 1805
Do	-	Philadelphia, Pa.	Feb. 19, 1806
Do	-	Alburg, Vt.	Mar. 8, 1806
Do	-	Beaver, Pa.	Aug. 11, 1809
Do	-	Baltimore, Md.	Oct. 31, 1809
Do	-	Madison co., Miss.	Mar. 2, 1813
Do	and shaving	Mount Vernon, N.H.	Oct. 23, 1813
Do	for barge and scaleboards	Westfield, Mass.	Mar. 7, 1818
Do	-	Randolph co., N.C.	Dec. 22, 1826
Do	-	Savage Factory, Md.	Nov. 1, 1827
Do	-	Hudson, N.Y.	Dec. 27, 1828
Do	-	Angola, N.Y.	Feb. 7, 1829
Do	-	New York	April 25, 1829
Do	-	Do	Sept. 10, 1829
Do	-	Robeson, Pa.	May 12, 1812
Do	grooving, cutting boards, and dressing brick	Henry Clare and Pasquale Ricardi	May 25, 1818
Do	grooving	Mark M. Duplat	Mar. 16, 1820
Do	cylindrical	Thomas Rundle	Sept. 10, 1829
Do	engine, circular	Nathan Jones	July 23, 1816
Plaster paris, machine for breaking	engine	Jona. Crumbacker	Dec. 24, 1819
Pluribus unum, (combination of levers and wheels)	-	John M. Fors	Oct. 2, 1821
Privies, constructing	-	Jac. Houck -	Jan. 24, 1822
Do and vaults	-	John W. Osborn	Terre Haute, In.
Pulverizing substances	-	-	Jan. 21, 1829
Razor straps	-	-	-
Do	-	-	-
Do	-	-	-
Do	-	-	-

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Razor straps -	Gooding Holloway -	Chester, O. -	April 3, 1829
Reel for handling hides -	William Brown -	Frankfort, Pa. -	April 17, 1828
Roofs for houses -	Henry Johnson -	Philadelphia, Pa. -	May 10, 1802
Do shingling -	Thomas Young -	Marlborough, N. Y. -	May 11, 1807
Do for buildings -	Nathaniel Adams -	Dedham, Mass. -	July 29, 1829
Ruffles, plaiting -	Sylvester W. Talbott -	Philadelphia, Pa. -	May 4, 1816
Ruler, triangular measure case -	Allen Ward -	Troy, N. Y. -	Oct. 11, 1828
Do mathematical, for cutting garments -	Otis Madison -	Boston, Mass. -	Aug. 18, 1829
Sacking bottoms, mode of tightening -	John R. Simpson -	Massachusetts -	Aug. 10, 1827
Saddles, improvement in -	Thomas Stickney -	Boston, Mass. -	Nov. 16, 1797
Do spring tree -	David C. Moseley -	Reuben Fairchild and Eben. Fairchild -	April 25, 1810
Do trees, machine for making -	Chauncey Stiles, jr. -	Fairfield, Ct. -	June 1, 1810
Do do -	John Bryan -	Philadelphia, Pa. -	June 28, 1814
Do do -	Charles Klasson -	Lexington, Ky. -	Oct. 24, 1815
Do spring -	Nathan Mixer -	Baltimore, Md. -	May 22, 1816
Do tree springs -	Samuel M. Leaming -	Keene, N. H. -	May 28, 1818
Do spring -	William Harper -	Lexington, Ky. -	July 6, 1818
Do seats, elastic -	Peter Dixon -	Nashville, Tenn. -	April 2, 1819
Do without trees -	Peter H. Martin -	Philadelphia, Pa. -	July 16, 1819
Do seats, elastic -	Elisha Walker -	Nashville, Tenn. -	Feb. 23, 1820
Do -	Peter Dixon -	Aurora, N. Y. -	Nov. 16, 1820
Do -	John J. Morris -	Philadelphia, Pa. -	April 25, 1821
Do trees -	R. & D. Fairchild -	New York -	Aug. 28, 1821
		Fairfield, Ct. -	Mar. 6, 1822

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	REsIDENCE.	WHEN ISSUED.
Sawing clapboards	E. Pray, F. Benjamin, and J. S. Stone	Maine Waterville, Me.	Dec. 28, 1824
Do boards	William Kendall	Greensburg, N. C.	Jan. 16, 1826
Do circular timber	Benjamin Overman	Derby, Ct.	Sept. 15, 1826
Do logs into plank, &c.	Peter Tomlinson	Middleburg, Vt.	April 3, 1829
Do scaffolds, machine for raising and supporting	Hy. L. Nichols	Litchfield, Ct.	April 24, 1824
Scaleboards, machine for cutting	Jona. Carrington	Philadelphia, Pa.	April 27, 1812
Scale for draughting garments	N. B. Star	Bloomfield, N. Y.	July 10, 1826
Scrubbing floors, machine for	Simon B. Willard	Portsmouth, R. I.	Nov. 17, 1808
Selvage, double stitched	J. A. & E. W. Adsworth	Philadelphia, Pa.	Oct. 5, 1824
Sewer, common month	Alex. Raesey	Waterbury, Ct.	Oct. 3, 1820
Shaving woods for various purposes	Benjamin Holley	Lebanon, Ct.	June 14, 1814
Do tanners' bark	W. & J. Goodwin	Lockport, N. Y.	Oct. 16, 1814
Do and smoothing wood	Abm. Brownson	New York	June 21, 1826
Do shingles and boards, machine for	Bill Jarvis	Connecticut	July 8, 1797
Shingle machine	David French	Amherst, Mass.	July 25, 1803
Do sawing	Isaac Baker	Hartford, Ct.	May 8, 1805
Do and stave machine	Ashael A. Kersey	Chester, Pa.	Oct. 9, 1805
Do machine	Jer. McIlvain	Bairdstown, Ky.	April 1, 1807
Do shaving	Rob. & T. Nicholson	Reading, N. Y.	Dec. 13, 1808
Do splitting	Jac. Balcom	Baltimore, Md.	July 15, 1809
Do shaving	Jos. Coppinger	Bolton, Ct.	Oct. 31, 1809
Do and staves, dressing	Abiel A. Conley	Saratoga, N. Y.	July 13, 1810
Do do machine	Daniel Newell	Saratoga, N. Y.	July 26, 1810
	William Baley	Nelson co., Ky.	April 10, 1811

Do	shaving dressing machine	-	-	Sharon, Ct.	May 30, 1811
Do	John Heavin	-	-	Montgomery co., Va.	Mar. 16, 1812
Do	John Loomis	-	-	Geneva, N. Y.	Dec. 24, 1812
Do	Otis Paine	-	-	Foxboro', Mass.	June 18, 1813
Do	Willard Earle	-	-	Hubbardstown, Mass.	Sept. 3, 1813
Do	Salmon Fuller	-	-	Indiana Ter.	Nov. 14, 1814
Do	Oliver Merritt	-	-	Berkheanstead, Ct.	May 22, 1816
Do	Josiah Jaquith	-	-	Sherburn, Mass.	June 26, 1817
Do	William Earl	-	-	Boston, Mass.	Dec. 28, 1822
Do	Amasa Andrews	-	-	Livermore, Me.	Dec. 29, 1823
Do	James Sawyer	-	-	Templeton, Mass.	May 4, 1824
Do	Jona. Culver	-	-	Norfolk, N. Y.	Nov. 15, 1825
Do	Ephm. Parker	-	-	Cheshire co., N. H.	Dec. 17, 1825
Do	Willard Foster	-	-	Oswego, N. Y.	June 25, 1826
Do	Oliver Goddard	-	-	Bridgeton, Me.	April 6, 1826
Do	Paul Hawes	-	-	Lockport, N. Y.	Mar. 30, 1827
Do	Nathan Swift	-	-	Lebanon, Ct.	June 27, 1827
Do	George A. Hoard	-	-	Antwerp, N. Y.	Sept. 20, 1827
Do	George W. Dana	-	-	Lowville, N. Y.	Sept. 20, 1827
Do	Oliver Wheeler	-	-	Rochester, N. Y.	Nov. 10, 1827
Do	Cheney Read	-	-	Western, Mass.	April 2, 1828
Do	Stillman Howe and	-	-	Holden, Mass.	May 22, 1828
Do	Charles Chaffin	-	-	Rome, N. Y.	Aug. 25, 1828
Do	Danforth Wilder	-	-	G.J.Way, N. Y.	Oct. 10, 1829
Do	Richard McOmber	-	-	Cornwall Bridge, Ct.	Oct. 10, 1829
Do	Joel Barnes	-	-	Holden, Mass.	Nov. 10, 1829
Do	Simeon Wood	-	-	James City co., Va.	Nov. 12, 1829
Do	Parke Jones	-	-	Fredonia, N. Y.	Dec. 8, 1829
Do	Joel N. Johnson	-	-	Philadelphia, Pa.	May 9, 1814
Do	Benjamin Miller	-	-		
Shoes, machine for cutting					

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Shoes, socks, &c.	S. Norris and J. C. Wood	Philadelphia, Pa.	Jan. 30, 1822
Shoemaker	Gileon Drake	Windsor, Ct.	Mar. 14, 1816
Sick, machine for moving the Sifting sand, lime, &c.	John C. Jenckes	Providence, R. I.	May 29, 1823
Sign for lottery offices Skins, machine for splitting sheep	E. Blane and B. H. P. B. Latrobe	New Orleans New York	April 14, 1821 Feb. 9, 1825
Do do	Elijah Secor	Virginia	Nov. 16, 1796
Do do	James Stransfield	New Jersey	May 19, 1800
Do do	Thomas Q. Harrison	Massachusetts	Nov. 29, 1802
Do do	Asa W. Chickering	West Chester, N. Y.	Nov. 9, 1805
Do do	William Lillie	Boston, Mass.	Mar. 31, 1806
Do do	Stephen Payn	Walpole, N. H.	Feb. 24, 1808
Do do	William Bent	Worcester, Mass.	July 12, 1808
Do do	Isaac Cobb	Philadelphia Pa.	May 8, 1809
Do do	John Woodcock	Boston, Mass.	Nov. 20, 1809
Do do	William Brown	Philadelphia Pa.	Sept. 9, 1813
Do do	William Bent	Baltimore, Md.	June 17, 1822
Do do	Do	Philadelphia Pa.	Aug. 7, 1806
Do do	Thomas Woodsend	Springfield, Mass.	Feb. 28, 1811
Do application to various uses	William Shelden, jr.	Baltimore, Md.	Dec. 31, 1813
Do polishing and framing cyphering manufacturing	John Coleman	Easton, Pa.	Dec. 22, 1826
Do	J. Madison and E. & P. S. Matthes	Baltimore, Md.	Nov. 17, 1828
Do	Thomas Symington	Brookfield, Mass.	June 29, 1808
Slitting boards, machine for	Ez. Olds	-	-

Do timber		Kingston, Pa.	Mar. 25, 1826
Socks, moccasins or Tuscarora		Northampton, Mass.	Oct. 21, 1814
Do Columbian		Cunnington, Mass.	Feb. 8, 1816
Do for over shoes		Rensseler co., N. Y.	Mar. 6, 1822
Sofa, rocking, and easy chair		Readsborough, Vt.	Nov. 22, 1821
Do elastic spring		New Haven, Ct.	Feb. 2, 1822
Do and bedstead united		Boston, Mass.	Aug. 22, 1827
Do or sliding joint settee		New York	June 25, 1824
Splitting timber, machine for		Franklin, N. Y.	Jan. 15, 1818
Square, carpenters'		Bennington, Vt.	Dec. 15, 1819
Do for cutting garments		New York	Feb. 28, 1827
Staves and heads for barrels		Washington co., N. Y.	June 20, 1811
Do double and parallel jointer		Philadelphia, Pa.	Oct. 1, 1816
Do shaving and listing		Caledonia, N. Y.	Nov. 26, 1824
Do machine, cylindrical, for dressing		Manchester, N. Y.	Dec. 29, 1824
Do making ready for the truss hoop		Bloomfield, N. Y.	July 27, 1827
Do machine for dressing		Hanover, N. Y.	July 12, 1828
Do do		Rutland, Mass.	Feb. 3, 1829
Do do revolving		Do	Feb. 4, 1829
Stiffer spring for vests		Boston, Mass.	Dec. 5, 1827
Stirrups, manufacturing		Keene, N. H.	Feb. 3, 1819
Do irons		Baltimore	Jan. 26, 1827
Stock		Do	May 14, 1827
Do jubilee		Wm. J. Cantello and R. M. Kerrison	Aug. 30, 1826
Do composition hinge		G. R. Sillibridge	Oct. 10, 1829
Stone, sawing and polishing, and moulding		Simeon B. Withers	Nov. 3, 1813
Do do		John and S. Dwight	June 17, 1818
Do do		Nathaniel Holmes	Jan. 24, 1823

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Stone, hewing and hammering	Charles B. Reed	W. Bridgewater, Ms.	June 27, 1827
Do dressing, drilling, and cutting	Herman Bourne	Salem, Mass.	Aug. 3, 1827
Sugar, machine for breaking	James Mitchell	Philadelphia, Pa.	Sept. 11, 1822
Do do	William G. Sterling	Bridgeport, Ct.	Jan. 28, 1829
Tables, manufacturing	Sullivan Snow	Saco, Me.	Mar. 2, 1815
Do do	Peter Barker	Worthington, O.	Aug. 6, 1828
Tailoring, art of	Greenberry Ross	Carlisle, Ky.	April 5, 1826
Do do	Charles Kenrick	New York	Feb. 8, 1822
Tenons, machine for cutting	E. Basford & E. Johnson	Livermore, Mass.	April 28, 1810
Do do	Jona. Reynolds	Dutchess co., N. Y.	June 24, 1815
Tewell and water back	Oliver Aimes	Plymouth, Mass.	June 24, 1809
Do do	Gideon Davis	Sandy Spring, Md.	May 26, 1813
Do do	Asa Blood	Conhocton, N. Y.	Oct. 24, 1826
Tew, iron	Wm. Barker	Luzerne co., Pa.	Nov. 10, 1818
Tile and brick machine	Wm. Hodgson	Richmond, Va.	May 22, 1805
Do and pan	Wm. Harwood	Do	July 3, 1816
Trip or tilt hammer	John F. Gould	Middlesex, Mass.	Mar. 8, 1806
Do do	Joel Fox, jr.	Oisego, N. Y.	Feb. 25, 1807
Do hammer	John Smith	Berkshire, Mass.	Oct. 14, 1809
Do do	Ezra Osborn	Depeyster, N. Y.	Jan. 8, 1810
Do do	Elisha Downer	Plymouth, Mass.	April 11, 1810
Do do	Oliver Aimes	Providence, R. I.	April 25, 1810
Do do	Joseph Hines	June 16, 1810	
Do do	Joseph Gowding	Leicester, Mass.	Mar. 1, 1811

Josiah Beal	Ontario co., N. Y.	Oct. 5, 1811
Stephen Morrill	Brewster, Mass.	Sept. 28, 1812
Urban Palmer	Spencer, N. Y.	July 31, 1815
Jac. Eversol	Botetourt co., Va.	May 3, 1821
Wm. Bowling	Harrisonburg, Va.	July 1, 1823
Elisha Crowell	Gardiner, Me.	Aug. 4, 1826
Philip P. Read	Mercer, Me.	Dec. 7, 1826
E. Pierce & J. Hathaway	Pultney, N. Y.	Oct. 19, 1827
	Big Flatt, N. Y.	Mar. 17, 1828
Levi Rosenkrans	Sterling, Me.	Aug. 18, 1829
Samuel Kiburn	Philadelphia, Pa.	Aug. 28, 1834
Robert C. Martin	Winchester, Ct.	Feb. 19, 1824
Robert U. Richards	Philadelphia, Pa.	April 7, 1827
Jer. Bailey.	Rhode Island	Mar. 16, 1801
William Stillman	New Jersey	Feb. 28, 1816
Sylvanus Bonnel	Baltimore, Md.	July 5, 1817
Adam Stewart	Manchester, Mass.	Dec. 7, 1826
John P. Allen	Chambersburg, Pa.	April 21, 1829
John McClintic	Belfast, Me.	May 1, 1829
Caleb B. Burnap	Salem, Mass.	Sept. 10, 1829
Amos F. Smith	Job White and P.	Belfast, Me.
do	Quimby	Sept. 12, 1829
do	Benjamin Crehore	May 22, 1828
do	Elisha M. Ely	Paris, France
do	John Williams	Baltimore, Md.
do	Nathaniel Briggs	New Hampshire
do	Ezra Welds	Massachusetts
do	Do	Do
do	Samuel S. Dean	New York
do	Abm. Higham	Hudson, N. Y.
Veneer saw frame		
Wafers, leather, for gloves, and machine for cutting		
Washstand		
Washing machine		
Do	do	

LIST OF PATENTS—COMMON TRADES—Continued.

do	do	Garry Bishop	Cazenovia, N. Y.	Sept. 7, 1808
Do	do	Septimus Tucker	Dublin, Pa.	Jan. 12, 1809
Do	do	Eli F. Hill	Fabius, N. Y.	Feb. 11, 1809
Do	do	Aziel Blodget	Amherst, N. H.	Feb. 16, 1809
Do	do	Joseph Yarwood	New Brunswick, N. J.	Mar. 11, 1809
Do	do	Levi Anderson	Bristol, Pa.	Mar. 23, 1809
Do	do	Wm. Buckman	Annapolis, Md.	Mar. 23, 1809
Do	do	Garry Bishop	Madison co., N. Y.	April 17, 1809
Do	do	Leviuel Bachelor	Vernon, N. Y.	April 24, 1809
Do	do	Orin Chatfield	Burlington, N. Y.	May 15, 1809
Do	do	Nichs. Van Zandt	Washington City, D.C.	May 21, 1809
Do	do	Gardner Osgood	Madison co., N. Y.	June 7, 1809
Do	do	Martin Lee	Burlington, N. Y.	June 8, 1809
Do	do	Isaiah Jennings	New York	June 13, 1809
Do	do	Thomas Pierce	Fishkill, N. Y.	June 24, 1809
Do	do	Amos Hosford and E. Kelsey	Berlin, Ct.	June 27, 1809
Do	do	Tim'y Freeman	Madison co., N. Y.	June 30, 1809
Do	do	Shubael Kimball	Rhinebeck, N. Y.	Aug. 12, 1809
Do	do	Rosel Phillips	Otsego co., N. Y.	Oct. 14, 1809
Do	do	Rob Robinson	Leesburg, Va.	Nov. 3, 1809
Do	do	Sylvester Noble	Hosick, N. Y.	Feb. 1, 1810
Do	do	Jesse Roberts.	Germanstown, Pa.	April 25, 1810
Do	do	Isaac Loofborow	New York	June 26, 1810
Do	do	Wm. Jackman	Painsville, Ohio	Oct. 8, 1810
Do	do	Daniel Robinson	Franklin, N. Y.	Dec. 15, 1810
Do	do	David Duncan	Upperville, Va.	May 23, 1811
Do	do	William Stanton	Lynchburg, Va.	May 12, 1812
Do	do	Zina Phinney	Cairo, N. Y.	June 19, 1812
Do	do	James Truman	Philadelphia, Pa.	Aug. 21, 1812
Do	do	Jos. Palmer	Brookfield, N. Y.	Aug. 21, 1812
do and churning				
do and churning				
called the steam washer				
facilitating				

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Washing machine	Erastus Denison	New Lisbon, N. Y.	Dec. 30, 1812
Do do	John F. Whipple	Easton, N. Y.	June 10, 1813
Do do	Josiah Hotchkiss	Woodbury, Ct.	June 18, 1813
Do do	Silas Hitchcock	Vernon, N. Y.	June 25, 1813
Do do	John Gray	Eaton, N. Y.	Feb. 4, 1814
Do do	Eliphalet Jacques	Newburyport, Mass.	May 24, 1814
Do do	Joshua Lane	Homer, N. Y.	May 15, 1815
Do do	Chris. Seebold	New Berlin, Pa.	Feb. 1, 1816
Do do	James Burnett	Providence, R. I.	Sept. 13, 1818
Do do	Beardsley Hendryx	Springfield, N. Y.	May 6, 1819
Do do	Benjamin Cox	Hadley, Mass.	Aug. 15, 1820
Do do	James Barron	Norfolk, Va.	Dec. 7, 1821
Do do	James Justin	Pittsburg, Pa.	April 19, 1822
Do do	F. Goncher	Philadelphia, Pa.	June 15, 1822
Do do	Pascal Cady	Brooklyn, Ct.	Jan. 17, 1822
Do do	David Watson	Fayette, Me.	Oct. 15, 1822
Do do	Isaac Leavitt	Turner, Me.	Aug. 12, 1823
Do do	Andw. Glendenning	Butler co., Pa.	Sept. 25, 1823
Do do	William Cahoon	Winfield, N. Y.	June 15, 1824
Do do	Eb. Bewey	Butternuts, N. Y.	June 24, 1824
Do do	Andw. Glendenning	Loudon co., Va.	Sept. 9, 1824
Do do	John West	Middletown, Ct.	Dec. 14, 1824
Do do	Reuben Wheeler	Vergennes, Vt.	Feb. 26, 1825
Do do	Moses J. Clark	Auburn, N. Y.	Nov. 8, 1825
Do do	Sherburn Bostwick	Thompson, Ohio	Dec. 8, 1825

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Washing machine	Amos Larcom	Watervliet, N. Y.	Jan. 16, 1829
Do	John Taylor	Dunstable, N. H.	April 1, 1829
Do	Stephen Hinds	Montrose, Pa.	April 25, 1829
Do	Freedus Reed	Pike township, Pa.	June 11, 1829
Do	Eph'm Wheeler	Galway, N. Y.	June 11, 1829
Do	Joel B. Pratt	Milo, N. Y.	July 14, 1829
Do	Wm. E. Arnold	Haddam, Ct.	Aug. 3, 1829
Do	Enos D. Cherry	Auburn, N. Y.	Sept. 10, 1829
Do	George A. Stocking	Aurelius, N. Y.	Sept. 10, 1829
Do	Pinkham Mosher	Ballston Spa, N. Y.	Oct. 10, 1829
Do	George B. Gibbs	Le-Raysville, Pa.	Oct. 10, 1829
Do	H. Shively, R. S. McEwen, and J. Lindsey	Fredericksburg, Ohio	Oct. 21, 1829
Do	Eleazer Berry	New York	Nov. 12, 1829
Do	Charles D. Wright	E. Haddam, Ct.	Nov. 19, 1829
Do	Roswell Brainerd	Haddam, Ct.	Nov. 23, 1829
Do	J. T. W. Dennis	Painiville, O.	Dec. 16, 1829
Do	Keene A. Billie	New York	Nov. 8, 1828
Do	Nathaniel Briggs	Windham, Vt.	June 17, 1809
Do	John Sittton	Pendleton, S. C.	Feb. 15, 1827
Do	Cyrus W. Beach	Schoharie, N. Y.	Mar. 16, 1827
Do	Stephen Parsons	Massachusetts	Nov. 20, 1797
Do	William Long	Connecticut	Nov. 20, 1800
Do	Benj. S. Walcott	Do	Sept. 4, 1802
Window sashes	Do	Do	
Do	raising	Do	
Do	and shutter, fastening	Do	

Do	springs	-	July 1, 1803
Do	fastening	-	Nov. 24, 1803
Do	do	-	Dec. 10, 1803
Do	do	-	Feb. 24, 1804
Do	do	-	Mar. 8, 1804
Do	do	-	April 14, 1804
Do	do	-	Nov. 19, 1804
Do	spring	-	Dec. 26, 1804
Do	apparatus for cleaning	-	July 24, 1807
Do	sash machine	-	Jan. 7, 1809
Do	shutter fastenings	-	Jan. 14, 1809
Do	sash, machine for laying out	-	April 27, 1809
Do	shutter	-	June 17, 1809
Do	spring, bolt, and key	-	Mar. 8, 1810
Do	sash stuff, machine for trying	-	April 28, 1810
Do	springs	-	Dec. 27, 1810
Do	sash spring bolt	-	Oct. 13, 1813
Do	spring bolt	-	April 23, 1816
Do	blinds	-	Mar. 20, 1817
Do	and door frames	-	April 30, 1817
Do	sash	-	June 17, 1817
Do	catches, rule joint for	-	Oct. 1, 1818
Do	springs	-	Oct. 26, 1818
Do	do	-	May 24, 1819
Do	shutter, fastening	-	Jan. 31, 1822
Do	curtains, screws and key	-	Mar. 6, 1822
Do	sashes, hanging	-	Oct. 15, 1822
Do	do	-	May 29, 1823
Do	sash, machinery for making	-	July 9, 1823
Do	shutter fastenings	-	Oct. 21, 1824
Samuel J. Kemp	Norwalk, Ct.	-	
Jacob Oshorn	Connecticut	-	
James Curtis	Massachusetts	-	
Wm. W. Hopkins	Norfolk co., Va.	-	
Daniel M. Miller	Haddam, N. Y.	-	
Joseph Eaton	Boston, Mass.	-	
John Hoover	New York	-	
Isaac Scott	New Haven, Ct.	-	
Thomas Bruff	Washington, D. C.	-	
Joel Farnham	Oswego, N. Y.	-	
James Blanchard	New York	-	
David Worthington	Hartford, Ct.	-	
Truman Bartholomew	New York	-	
Roger-Smith	Norwich, Ct.	-	
Eben. Basford	Livermore, Mass.	-	
George Cannon	Nantucket, Mass.	-	
Nathaniel Briggs	New York	-	
Shadrack Trumbull	Suffield, Ct.	-	
George Munger	Cambridge, Md.	-	
John Jordan	Rockbridge co., Va.	-	
Jer Bliss	Somerset, Ct.	-	
Noble Hurdle	Georgetown, D. C.	-	
Gideon Drake	Hartford, Ct.	-	
Hez. Salisbury, jr.	Brattleborough, Vt.	-	
B. West and P. Soper	Rome, N. Y.	-	
Hy. Andrew	New York	-	
Francis Follett	Petersburg, Pa.	-	
John Ballthorpe	-	-	
Amos Miner	Elbridge, N. Y.	-	
Nathaniel Briggs	New York	-	

LIST OF PATENTS—COMMON TRADES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Window and bed curtains	Samuel Abbott and J. Prentis	Chester, Mass.	Aug. 23, 1825
Do shades	Rufus Conant	Lyme, N. H.	Sept. 9, 1825
Do shutters, fire proof	J. Brown & Geo. W. Robinson	Providence, R. I.	-
Do shutter fastenings	Truman Bartholomew	New York	Mar. 16, 1826
Do sashes, cast iron	Isaac McNary	Stafford, Ct.	Feb. 19, 1828
Do fastening, self-adjusting spring	Holly Seely	Unadilla, N. Y.	Feb. 23, 1828
Do blinds	John Parkerson	Boston, Mass.	July 14, 1828
Do sash, blinds, &c.	Jedediah Richards	Elbridge, N. Y.	Oct. 11, 1828
Do shutters, securing	Truman Bartholomew	New York	Nov. 14, 1828
Wooden ware	L. Z. Parke	Windham, N. Y.	June 30, 1829
Do do hollow	Elisha Briggs	Perry, N. Y.	June 14, 1825
Workstand, shoemakers'	Wm. & Nathan Kelley	Littleton, Mass.	July 30, 1827 Oct. 13, 1820

LIST OF PATENTEES—COMMON TRADES—~~continued.~~

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Anderson, Levi	Bristol, Pa.	Washing machine	Feb. 23, 1809
Aimes, Oliver	Plymouth, Mass.	Tewel and water back	June 24, 1809
Atwell, Benj., & Israel Nichols	Otsego, N. Y.	Washing machine	Oct. 14, 1809
Aimes, Oliver	Plymouth, Mass.	Trip hammer	April 25, 1810
Aram, Pierre	Baltimore	Boots and shoes, elastic	Sept. 24, 1816
Adams, Daniel	Keene, N. H.	Stirrups	Feb. 3, 1819
Andrew, Hy.	New York	Window curtains, screws and key	Mar. 6, 1819
Aiken, Herrick	Brighton, Mass.	Hames, coach and chase	Feb. 12, 1823
Do	Do	Knife for splitting leather	Mar. 12, 1823
Andrews, Amasa	Livermore, Me.	Shingle machine	Dec. 29, 1823
Averill, John R.	Manchester, N. Y.	Stave-dresser, cylindrical	Dec. 29, 1824
Adams, Charles	Boston, Mass.	Bedstead windlass	Feb. 26, 1825
Abbot, Samuel, and J. Prentis	Chester, Mass.	Curtains, window and bed	Aug. 23, 1825
Allen, John P.	Manchester, N. Y.	Veneers, sawing	Dec. 7, 1826
Allen, Herman	Easton, Pa.	Planing boards, machine for	Dec. 22, 1826
Amsden, Amory	Bloomfield, N. Y.	Staves, making ready for truss hoop	July 27, 1827
Adams, Wm. & Marcus Averill, Henry	Ogden, N. Y.	Casks, barrels, hogheads, &c.	Jan. 24, 1828
Richland, N. Y.	Tolland, Ct.	Washing and pressing machine	Aug. 14, 1828
Andrews, George	Brookfield, N. Y.	Felloes	Oct. 24, 1828
Ayars, Joshua	Marlborough N. Y.	Boot tree	Nov. 27, 1828
Adams, Nathaniel Arnold, W. E.	Haddam, Ct.	Roofs for buildings	July 29, 1829
Bronwer, Samuel	Massachusetts	Washing machine	Aug. 3, 1829
		Brick and pan tile	Aug. 17, 1793

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Briggs, Nathaniel	New Hampshire	Washing machine	Mar. 28, 1797
Banks, William	Connecticut	Bread making	Dec. 14, 1798
Baker, Isaac	Massachusetts	Churning machine	Feb. 20, 1802
Do	Amherst, Mass.	Shingle sawing	May 8, 1805
Bennock, John	Boston, Mass.	Planing machine	June 1, 1805
Buck, Reuben		Washing machine	May 29, 1806
Bedford, John	Philadelphia, Pa.	Boots and shoes, making	July 16, 1806
Burtis, B. G., and G. Burtis	New York	Butter, machine for making	Feb. 27, 1807
Beatty, Thomas	Baltimore, Md.	Washing and churning machine	April 25, 1807
Buck, Reuben	Washington, D. C.	Churn	June 23, 1807
Bruff, Thomas	Massachusetts	Windows, apparatus for cleansing	July 24, 1807
Barnum, Eli	Boston, Mass.	Boots and shoes, machine for making	Jan. 9, 1808
Bent, William	Philadelphia, Pa.	Splitting skins	Feb. 24, 1808
Bolton, John	Cazenovia, N.Y.	Churn	Aug. 2, 1808
Bishop, Garry	New Brunswick	Washing and churning machine	Sept. 7, 1808
Burtis, William	Foxborough, Mass.	Bench for tailors	Oct. 3, 1808
Boyden, Seth	New York	Splitting and shaving leather, machine for	Jan. 7, 1809
Blanchard, James	Amherst, N.H.	Fastenings, window shutter	Jan. 14, 1809
Blodget, Aziel	Annapolis, Md.	Washing machine	Feb. 16, 1809
Buckman, William	Madison co., N.Y.	Do do	Feb. 23, 1809
Bishop, Garry	Vernon, N.Y.	Do do	April 17, 1809
Bachelor, Lemuel	Windham, Vt.	Do do	April 24, 1809
Briggs, Nathaniel	New York	Water table for doors	June 17, 1809
Bartholomew, Truman		Window shutter	June 17, 1809

Balcomb, Jac.	Reading, N. Y.	Shingle shaving	June 15, 1809
Burt, Enoch	Princeton, N. J.	Churn	Nov. 20, 1809
Brown, William	Philadelphia, Pa.	Splitting hides and skins, improvement on Bent's machine	Nov. 20, 1809
Barber, Oliver	Hartford, Ct.	Coopering machine	Jan. 8, 1810
Baldwin, Sylvanus	Montpelier, Vt.	Mortising and tenoning machine	Mar. 17, 1810
Barnard, Cromwell	Nantucket, Mass.	Dough, machine for breaking	April 17, 1810
Basford, Eb., & Eli-	Livermore, Mass.	Tenons, machine for cutting	April 28, 1810
sha Johnson	Do	Sash stuff, machine for trying	April 28, 1810
35 Basford, Eben.	Hancock co., Mass.	Churning machine	July 26, 1810
Bacon, Ephraim	Northfield, Mass.	Churn	Jan. 24, 1811
Beach, Joseph	Nelson co., Ky.	Shaving shingles and staves, machine for	April 10, 1811
Baley, William	Balltorpe, John	Window sash spring	May 22, 1811
Bissel, Luther	Otsego, N. Y.	Marble sawing and polishing machine	June 7, 1811
Beal, Josiah	Ontario co., N. Y.	Trip hammer	Oct. 5, 1811
Barker, T. E., and L.	Hudson, N. Y.	Hides, breaking, taking off hair, fleshing, &c.	Oct. 15, 1812
S. Fordham	Madison co., Miss.	Planing and shaving machine	Mar. 2, 1813
Badger, William	Boston, Mass.	Slitting skins	Sept. 9, 1813
Bent, William	New York	Window sash spring bolt	Oct. 13, 1813
Briggs, Nathaniel	Springfield, Mass.	Dyewoods, rasping, &c.	Mar. 1, 1814
Broad, James, and Jos.	West Chester co., N. Y.	Leather, uniting by metal or wooden pegs	April 2, 1814
Broad	Alexandria, D. C.	Brick cornice for buildings	May 28, 1814
Browne, Sidney B.	Litchfield, Ct.	Dye stuffs, barks, &c., machine for cutting	June 9, 1814
Beale, Thomas K.	Northampton, Mass.	Socks, moccasins or Tuscarora	Oct. 21, 1814
Broad, Aaron	New York	Corsets	July 21, 1815
Bolton, William	Lexington, Ky.	Saddle trees	Oct. 24, 1815
Brush, Mary	New Jersey	Veneers, shaving	Feb. 28, 1816
Bryan, John	Philadelphia, Pa.	Bruising, beating, cutting, and mincing substances	July 18, 1816
Bonnel, Sylvanus	Baltimore, Md.	Churn	July 29, 1816
Britz, Adam			
Bills, Artemas			

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Bowhay, William	Philadelphia, Pa.	Dowelling instrument -	Oct. 14, 1816
Broadway, Abel	Monson, Mass.	Churn -	Nov. 25, 1816
Bliss, Jer.	Somerset, Ct.	Sash work, machine for	June 17, 1817
Baldwin, James	Westfield, Mass.	Planing boards, machine for	Mar. 7, 1818
Bedford, John	Philadelphia	Boots and shoes, nailing on soles of	June 2, 1818
Burnett, James	Providence, R. I.	Washing machine -	Sept. 13, 1818
Beissel, David	Harrisburg, Pa.	Machine for cutting sausage meat	Oct. 26, 1818
Burr, James	Johnstown, N. Y.	Leather, machine for finishing	Nov. 24, 1820
Barker, William	Luzerne co., Pa.	Tew iron -	Nov. 10, 1818
Blanc, E., and B. H.	New Orleans	Sifting sand, lime, &c., machine	April 4, 1818
Latrobe	Newburg, N. Y.	Brick making machine	May 17, 1818
Belknap, Seth	Norfolk, Va.	Washing machine	Dec. 17, 1818
Barron, James	New Haven, Ct.	Sofa, elastic spring	Feb. 2, 1822
Blair, Sherman	New York	Drawers for wearing	Feb. 28, 1822
Brewer, Henry	Ransselaer co., N. Y.	Socks for over shoes	Mar. 6, 1822
Brower, William	Boston, Mass.	Horse shoes -	Mar. 11, 1822
Brown, John B., and J. Farmer	Do	Leather, splitting	May 31, 1822
Butters, Joshua	A. Kirth	Churn	June 19, 1822
Brown, E., and A. Bent, William	Winfield	Machine for splitting skins	June 17, 1822
Buffum, Arnold	Philadelphia	Boots and shoes, water proof	Dec. 28, 1822
Bowlin, William	Smithfield, R. I.	Tilt, or trip hammer -	July 1, 1823
Blair, Sherman	Harrisburg, Va.	Cushion, elastic spring	Aug. 1, 1823
	New Haven		

Boyd, Seth	Newark, N. J.	Blinds, &c., for horses	April 10, 1824
Briggs, Nathaniel	New York	Window shutters, fastening	Oct. 21, 1824
Bachelder, James	Lancaster, N. H.	Machine for sharpening currier's knife	Nov. 9, 1824
Bailey, Jeremiah	Philadelphia	Bedstead and bed for the sick and the lame	Mar. 18, 1825
Baird, Abraham	Schoharie co., N. Y.	Churn	Mar. 25, 1825
Bortle, John P.	Claverack, N. Y.	Do	April 19, 1825
Buck, William	Chatham, Ct.	Butter, working and cutting curds machine	Dec. 5, 1825
Bostwick, Sherburn	Thompson, Ohio	Washing machine	Dec. 8, 1825
Brookings, John M.	Wiscasset, Me.	Mortar, moulding, and pressing brick	Jan. 23, 1826
Brown, J., and G. W.	Providence, R. I.	Window shutters, fire proof	Mar. 16, 1826
Robinson	Green co., Ohio	Bedsteads, bisected	Feb. 21, 1826
Breadsted, Peter	Kingston, Pa.	Slitting timber	Mar. 25, 1826
Barker, William	Petersburg, Va.	Bedstead fastenings	April 3, 1826
Badger, Edwin H.	Lockport, N. Y.	Shaving and smoothing wood machine	June 21, 1826
Brownson, Abm.	Annsville, N. Y.	Washing by steam	Aug. 16, 1826
Burton, William, jr.	Conhocton, N. Y.	Tewel and water back	Oct. 24, 1826
Blood, Asa	New York	Bedsteads	Nov. 7, 1826
Brooke, Samuel	Lexington, Ky.	Knife, currier's, constructing, &c.	Nov. 13, 1826
Bell, William	New Milford, Ct.	Washing machine	Nov. 24, 1826
Beach, Burroughs	Schoharie, N. Y.	Wheelwright's assistant	Mar. 16, 1827
Beach, Cyrus W.	Hillsdale, N. Y.	Churn	Mar. 24, 1827
Bageley, Samuel L.	Philadelphia	Carpentering, art of	April 7, 1827
Billy, Jer.	Do	Tubs, machine for cutting wood for sides of	April 7, 1827
Do	Buffalo, N. Y.	Washing machine	June 27, 1827
Board, David	Salem, Mass.	Stone, dressing, drilling, and cutting	Aug. 3, 1827
Boivin, Elmeron	Perry, N. Y.	Wooden ware, hollow	July 30, 1827
Bois, F. T., & Son, Jr.	Wells tow'lp., Pa.	Churning machine	Jan. 10, 1828
Baltimore, W.	N. w. York	Window shutter fastening	Feb. 19, 1828
Baltimore, W.	Carlisle, N. Y.	Washing machine	Mar. 28, 1828
Baltimore, W.	Wiscasset, N. Y.	Bellows, constructing	May 3, 1828

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Brown, William	Frankfort, Pa.	Reel for handling hides	April 17, 1828
Benton, Levi.	Hanover, N. Y.	Staves, machine for dressing	July 12, 1828
Bratt, Nicholas	Lockport, N. Y.	Hoops, machine for sawing, improvement on Slayton's	July 31, 1828
Barker, Peter	Worthington, Ohio	Tables, breakfast and dining	Aug. 6, 1828
Bille, Keene A.	New York	Washing, filling, and corking bottles	Nov. 8, 1828
Blodget, Eb.	Watervliet, N. Y.	Washing machine	Dec. 10, 1828
Brownson, Samuel A.	Montrose, Pa.	Leather rolling machine	Dec. 26, 1828
Bayrd, Abel	South Reading, Mass.	Leather and morocco, polishing	Dec. 29, 1828
Beckwith, S., S. Beckwith, Jr. & E. Beckwith	Westmoreland, N. Y.	Pegs for shoes, manufacturing	Dec. 27, 1829
Burnap, Caleb B.	Belfast, Me.	Veneers, machine for cutting	May 1, 1829
Bartholomew, Truman	New York	Window shutters, securing	June 30, 1829
Blakeslee, Merrit	Canaan, Ct.	Felloes, bending by steam	July 29, 1829
Barnes, Joel	Cornwall Bridge, Ct.	Shingle machine	Oct. 10, 1829
Barrett, James C.	Collins, N. Y.	Churn	Oct. 19, 1829
Burdick, Alden	Carroll, N. Y.	Boots, manufacturing	Oct. 31, 1829
Buckenberger, Ant.	New York	Cradle, self moving	Nov. 3, 1829
Berry, Eleazer	Do	Washing machine	May 12, 1829
Brainerd, Roswell	Haddam, Ct.	Washing eclipse	Nov. 23, 1829
Burnell, Symes	Berlin, Ct.	Doors, machine for closing and shutting	Nov. 25, 1829
Caldwell, James, and			
Chris Butterman	Albany, N. Y.	Sawing wood and bark	Jan. 26, 1793
Colles, Chris.	New York	Brick making	Jan. 26, 1793
Chickering, Asa W.	Massachusetts	Splitting skins	Nov. 29, 1802
Gurtis, James, jr.	Do	Window springs	Dec. 10, 1803

Church, Samuel	Amherst, Mass.	Felloes, machine for sawing, &c.	May 4, 1805
Cleaveland, Josiah	Franklin co., Pa.	Washing machine	June 6, 1807
Cutler, Buel	Washington, N. Y.	Churning machine	Oct. 3, 1807
Cleaveland, Dyer	Sheffield, Mass.	Churn	July 7, 1808
Do	Do	Do	July 11, 1808
Cobb, Isaac	Walpole, N. H.	Splitting skins	July 12, 1808
Chamberlain, Sam.	Boston, Mass.	Boots and shoes	Nov. 21, 1808
Chatfield, Orin	Buckington, N. Y.	Washing machine	May 15, 1808
Coppinger, Jos.	Baltimore, Md.	Shingle splitting machine	Oct. 31, 1809
Do	Do	Paning machine	Oct. 31, 1809
Clark, David	West Stockbridge, Ms.	Marble or pipe stone turner	April 9, 1810
Clark, Anson	Do	Marble and stone, cutting and polishing	April 10, 1810
Church, Samuel	Amherst, Mass.	Felloes, cutting and dressing	April 25, 1810
Copley, Abiel A.	Bolton, Ct.	Shingles, shaving	July 13, 1810
Cannon, George	Nantucket, Mass.	Window springs	Nov. 27, 1810
Cleveland, Lewis	Holliston, Mass.	Churn	Feb. 7, 1811
Carrington, Jona.	Litchfield, Ct.	Scaleboards, machine for cutting	April 27, 1812
Canfield, Russell	Philadelphia	Sawing machine	May 1, 1812
Crease, W. G., and J.	Do	Boot, mathematical	July 20, 1812
Morgan	Philadelphia	Bedstead	Oct. 16, 1812
Coxe, John R.	Do	Timber, sawing	April 15, 1813
Erain, David	Clarkburg, Va.	Polishing and framing cyphering slates	Dec. 31, 1813
Coleman, John	Baltimore	Buckles, cutting and finishing harness	Oct. 12, 1814
Carman, James	Hudson, N. Y.	Cradles	Mar. 27, 1815
Cooper, Peter	Hempstead, N. Y.	Do	Jan. 15, 1806
Cornell, Alvan, & Hi-	Cambridge, N. Y.	Churn	May 25, 1816
ram H. Cornell	New York	Pluribus unum, combination of levers, wheels, &c.,	Oct. 9, 1819
Clare, Henry, & Pas-	Redstone, Pa.,	Sausage machine	Dec. 24, 1819
quale Ricardo	Union, Md.	Razor straps	-
Craft, George B.			
Crumbacker, Jona.			

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Cox, Benjamin	Hadley, Mass.	Washing machine	Aug. 15, 1819
Converse, Elijah	Dalton, O.	Dyewood, machine for cutting	Jan. 10, 1821
Cantelo, William J.	New York	Corsets	Dec. 31, 1821
Cady, Pascal	Brooklyn, Ct.	Washing machine	Jan. 17, 1822
Clark, Samuel	Morris co., N. J.	Churn	Oct. 4, 1822
Caldwell, Tim.	Philadelphia Pa.	Bricks, fire proof	July 21, 1823
Campbell, Ethan	Do	Clothes, cutting out	Nov. 6, 1823
Conklin, Nathan W.	Jamaica, N. Y.	Saddles, spring	Mar. 27, 1824
Cahoon, William	Winfield, N. Y.	Washing machine	June 15, 1824
Cooper, Isaac	Baltimore, Md.	Bedsteads	Feb. 22, 1825
Conant, Rufus	Lynn, N. H.	Window shades	Sept. 9, 1825
Cooper, Samuel	Chambersburg, Pa.	Bedstead, double tenon draw key	Nov. 5, 1825
Clark, Moses J.	Auburn, N. Y.	Washing machine	Nov. 8, 1825
Culver, Jona.	Norfolk, N. Y.	Shingles, sawing with a gang of saws	Nov. 15, 1825
Collier, Phoebe, widow of James	Catskill, N. Y.	Felloes, sawing	May 20, 1826
Collins, W. H.	Cincinnati, O.	Saddles, constructing	May 27, 1826
Church, S. & H. Clark	Utica, N. Y.	Washing machine	July 6, 1826
Crowell, Elisha	Gardiner, Me.	Trip hammer	Aug. 4, 1826
Cantelo, W. J. & R. M.			
Kerrison	New York	Stock, jubilee	Aug. 30, 1826
Clark, Hez. S.	Randolph co., N. C.	Machine for breaking hides	Dec. 22, 1826
Clark, Elijah B.	Damascus, Pa.	Jointing boards	Jan. 31, 1827
Conillard, Samuel	Boston, Mass.	Leather, dyeing and polishing	June 27, 1827
Cass, Moses	Caroline, N. Y.	Washer, accelerating	July 29, 1827

Comstock, J. L.	Hartford, Ct.	Leather and cloth, water proof	Jan. 21, 1828
Orehole, Benjamin	Milton, Mass.	Veneer saw frame	May 22, 1828
Crandell, Benjamin K.	Lockport, N. Y.	Laths, hoops, &c., machine for slitting	Aug. 25, 1828
Clark, Henry	Brooklyn, Ct.	Collar for dress coats	Nov. 7, 1828
Cushwa, Benjamin	Clear Spring, Md.	Forcing valve piston churn	Jan. 24, 1829
Do	Do	Churn, forcing valve piston	Dec. 24, 1829
Cushman, Alfred Cole, William, and John Johnson	Randolph, Mass.	Clay and sand, machine for grinding together	Mar. 3, 1829
Copan, John	New York	Door fender, water and snow	Mar. 27, 1829
Clark, James A.	Georgetown, D. C.	Screw, right and left, bedstead	June 11, 1829
Cherry, Enos D.	Auburn, N. Y.	Bugs, bed, preventing their ascent, called the night angel	June 13, 1829
Cooke, William	Southport, N. Y.	Washing machine and heating water	Sept. 10, 1829
Drake, James	New Jersey	Churn, lever power	Dec. 7, 1829
Dickerson, Jona.	New Jersey	Bellows	May 19, 1794
Duty, Andrew W.	South Carolina	Marble, sawing and polishing	Jan. 9, 1796
Dean, Daniel S.	New York	Tiles, cutting clay for	May 8, 1799
Dana, Stephen W.	Rutland, Vt.	Washing machine	Feb. 29, 1804
Devotee, John	Vernon, N. Y.	Do do	Aug. 30, 1808
Dotterer, Henry	Philadelphia	Churning and washing machine	Dec. 5, 1808
Dickerman, Hez.	Great Barrington, Ms.	Forges, bellows for	Feb. 16, 1809
Decatur, Stephen, and William Tatham		Churn	May 9, 1809
Downer, Elisha		Horse shoes	Oct. 11, 1809
Dotterer, Henry		Trip hammer	April 11, 1810
Dow, Phineas		Bellows, elastic piston	May 1, 1810
Dungan, David		Mill, leather splitting	July 12, 1810
Davidson, John	Upperville, Va.	Washing machine	May 23, 1811
De Silver, Robert	Cheshire, N. H.	Churn, horizontal	April 3, 1812
Denison, Erastus	Philadelphia	Case, extra moveable book binding	Sept. 14, 1812
Drake, Gideon	New Lisbon, N. Y.	Washing machine	Dec. 30, 1812
	Windsor, Ct.	Shoemaker	Mar. 14, 1816

LIST OF PATENTEES—COMMON TRADES—Continued.

NAME OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Dearborn, Benjamin	Boston, Mass.	Lift for bricks and mortar, alternate	June 20, 1816
Donaldson, Alexander	Salem, Mass.	Bungs, machine for cutting	Jan. 15, 1818
Davis, Gideon	Sandy Springs, Me.	Tewel and water back	May 26, 1818
Dwight, Jno. & Sullivan	Boston, Mass.	Stone, sawing	June 17, 1818
Drake, Gideon	Hartford, Ct.	Springs, window	Oct. 26, 1818
Dixon, Peter	Philadelphia	Saddles without saddle trees	July 16, 1819
Duplat, Mark M.	Charleston, S. C.	Privies, constructing	Mar. 16, 1820
Dixon, Peter	Philadelphia, Pa.	Saddles	April 25, 1821
Dana, Aaron	Boston, Mass.	Boots and shoes, water proof	Dec. 31, 1821
Dinwiddie, Jos., and William Dinwiddie	Concord, V.a.	Saddles, spring tree	Aug. 8, 1823
Dodge, James, jr.	St. Alban's, Vt.	Bellows nogle, prevent its burning	Jan. 24, 1824
Dewey, Eben	Butternuts, N. Y.	Washing machine	June 24, 1824
Dotterer, Henry	Philadelphia, Pa.	Bellows for furnaces	April 14, 1825
Dillingham, John	Turner, Me.	Doors, locking	June 2, 1825
Deane, Oliver	Walpole, Mass.	Washing machine	Jan. 23, 1825
Durham, David G.	New Brunswick, N. J.	Do	Dec. 5, 1826
Davis, Samuel	Catskill, N. Y.	Bedstead	Dec. 29, 1826
Daley, Jac.	Baltimore, Md.	Bedstead, portable	May 14, 1827
Dana, George W.	Lowville, N. Y.	Shingle machine	Sept. 20, 1827
Draper, Samuel G.	Camillus, N. Y.	Logs, machine for boring pump	Mar. 31, 1828
Dixon, Jesse	Pittsburgh, N. C.	Bellows	June 11, 1827
Duty, Eben, and D. W.	Painsville, O.	Brick machine	June 7, 1828
Duty	Hartland, N. Y.	Washing machine	Sept. 2, 1828

Doty, Zuri S.	Groton, N. Y.	Churn	Mortising and tenoning machine	Mar. 17, 1829
Davis, Luther	Northampton, Mass.	Washing machine	-	April 14, 1829
Dennis, J. T. W.	Paineville, O.	Cards, pricking leather for	-	Dec. 16, 1829
Earle, Pliny	Massachusetts	Springs, window sash	-	Dec. 6, 1803
Eaton, Joseph	Boston, Mass.	Washing machine	-	April 14, 1804
Elliot, Richard R.	Watertown, Mass.	Hides, machine for softening dry	-	Feb. 28, 1807
Edwards, William	Northampton, Mass.	Elevator for the use of the sick	-	Dec. 30, 1812
Elliot, Jona.	Newbury, Mass.	Mill, shingle	-	Feb. 15, 1812
36 Earle, Willard	Hubbardston, Mass.	Boots and shoes, making furred	-	Sept. 3, 1813
Eells, Samuel	Connecticut	Churn	-	Feb. 24, 1816
Erving, Jona.	Boston, Mass.	Trip hammer	-	April 30, 1816
Eversol, Jac.	Botetourt co., Va.	Shingle machine	-	May 3, 1821
Earle, William	Boston, Mass.	Casks, making	-	Dec. 28, 1822
Emmons, Uri	Greene co., N. Y.	Moecassins, manufacturing	-	Jan. 8, 1823
Elliot, Catharine	New York	Boots, &c., lasting	-	Jan. 26, 1825
Eells, John, jr.	Unadilla, N. Y.	Bellows, making	-	Mar. 25, 1825
Eddy, Josiah J.	Providence, R. I.	Wafers, leather for gloves, &c.,	machine for cutting	Sept. 9, 1825
Ely, Elisha M.	Paris, France	Planing machine, cylindrical	-	Jan. 28, 1829
Emmons, Uri	New York	Do engine, circular	-	April 25, 1829
Do	Boston, Mass.	Wood and bark, sawing	-	Sept. 10, 1829
Farrington, Thomas	Connecticut	Shingle machine	-	May 9, 1792
French, David	Hingham, Mass.	Dough, machine for breaking	-	July 25, 1803
Folger, Label	Hallowell, Me.	Washing machine	-	Nov. 1, 1804
Fulson, W. J., and J.	Middlesex, Mass.	Hammer, trip	-	Dec. 17, 1805
Hayden	Middlesex, Mass.	-	-	Feb. 25, 1807
Fox, Joel, jr.	Middletown, Ct.	Leather, striping alum dressed	-	April 20, 1808
Frothingham, Saml., &	Oswego, N. Y.	Window sash machine	-	Jan. 7, 1809
George Harris	Madison co., N. Y.	Washing machine	-	June 30, 1809
Farnham, Joel				
Freckman, Timothy				

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Fairbanks, Benjamin - Fairchild, Reuben, and Eben Fairchild	Worcester, Mass.	Churn	Mar. 5, 1810
Foster, Benj., Daniel Washburn, Nor-	Fairfield, Ct.	Trees, machine for making saddle	June 1, 1810
throp Rockwell, and James O. Walker	Castleton, Vt.	Harness, carriage, and saddlery	Aug. 16, 1810
French, Daniel	New York	Brick and tile machine	Aug. 22, 1810
Francis, William	Boston, Mass.	Elastic hair soles for shoes and boots	June 23, 1812
Fuller, Salmon	Indiana Ter.	Shingles, machine for sawing	Nov. 14, 1814
Frazer, William L.	Oxford, N. Y.	Churn	Mar. 19, 1819
Fors, John M.	Baltimore	Strap, razor	Oct. 2, 1821
Finney, Bethnel	Readsburgh, Vt.	Sofa, rocking, and easy chair	Nov. 22, 1821
Fairchild, R. & D.	Fairfield, Ct.	Saddle trees	Mar. 6, 1822
Fisher, J. S., & L. W.	Dedham, Mass.	Dough, kneading	April 23, 1822
Talbot	Petersburg, Pa.	Window sashes, hanging	Oct. 15, 1822
Follet, Frs.	Boston, Mass.	Windlass bedstead	Feb. 16, 1824
Foster, Leonard	Do	Do do	June 25, 1824
Do	New York	Doors, preventing from being too tight	Dec. 12, 1825
Fraser, Daniel	Oswego, N. Y.	Boards, sawing	Jan. 25, 1826
Foster, Willard	Do	Shingles, do	Jan. 25, 1826
Do	West Chester, N. Y.	Marble, machine for rubbing and scouring	Mar. 7, 1826
Ferris, Elijah	Fayette, Me.	Brick, machine for moulding	June 9, 1826
Fish, Ezra	Do	Brick and tile machine	Sept. 8, 1827
Fisk, E., & B. Hinkley			

Flagg, David	Gardiner, Me.	Brick machine	Mar. 19, 1828
Bahrney, Samuel	Washington co., Md.	Fellos, sawing or cutting	Dec. 9, 1828
Do	Do	Cutter, sausage	Dec. 9, 1828
Foster, Aaron	Rochester, N. Y.	Dyewood and tan bark cutter; self feeding	Dec. 9, 1828
Foss, Cotton	Perry, Ohio	Churn	Dec. 9, 1828
Gordon, Peter	Philadelphia, Pa.	Boots, manufacturing	June 11, 1829
Godfrey, John W.	Pennsylvania	Bellows for furnace	Aug. 10, 1791
Gilman, Ward, and W.			May 25, 1803
Jackson	Portsmouth, N. H.	Bedstead	Mar. 19, 1804
Gould, John F.		Brick machine	Mar. 1, 1806
Gould, John F.		Hammer, trip	Mar. 8, 1806
Green, John	New York	Buckle, mechanical spring	May 20, 1807
Glover, Simeon, and			
D. Parmelee	Newtown, Ct.	Mortising machine	June 8, 1807
Gould, John F.	Newburyport, Mass.	Brick and tile machine	Oct. 17, 1809
Gray, Simeon	Genesee, N. Y.	Churn	Aug. 17, 1810
Griswold, Chester, and			
Hosea E. Potter	Otsego, N. Y.	Bark, machine for cutting, softening hides, fulling cloth, and for a grist mill	
Goulding, Joseph	Leicester, Mass.	Fellos, cutting	Nov. 20, 1810
Do	Do	Hammer, trip	Feb. 26, 1811
Gregg, James	New Hampshire	Brick making	Mar. 1, 1811
Gillet, Nathaniel, and			May 7, 1811
John Smith	Cazenovia, N. Y.	Boring machine	April 8, 1811
Geiger, Paul	Robeson, Pa.	Plaster paris breaking machine	May 12, 1812
Gray, John	Eaton, N. Y.	Washing machine	Feb. 4, 1814
Goodwin, Wm. & Jona.	Lebanon and Mans- field, Ct.	Shaving tanners' bark	Oct. 16, 1814
Greenholt, John	Westminster, Md.	Bench, shoemaker's	June 9, 1818
Goucher, F.	Philadelphia, Pa.	Washing machine	June 15, 1822
Glendening, A.	Butler co., Va.	Do do	Sept. 25, 1822

LIST OF PATENTEES—COMMON TRADES—Continued.

NAME OF PATENTEE.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Glendenning, A.	Loudon co., Va.	Machine for making sausages	Sept. 9, 1824
Do	Do	Filles, machine for killing	Sept. 9, 1829
Greenough, B. L.	Lebanon, N. H.	Felloes, machine for cutting	Dec. 22, 1824
Goddard, Oliver	Bridgeton, Me.	Shingles, sawing	April 6, 1826
Gleason, David, and			
H. Frisbee	Bethany, N. Y.	Boards, jointing and matching	April 8, 1826
Greer, Thomas	Manlius, N. Y.	Lever power, mortising machine	April 12, 1826
Goulding, John	Dedham, Mass.	Clothes, washing and scouring	July 24, 1827
Greenleaf, Abel, & H.			
Amidon	Mexico, N. Y.	Mortising machine	Dec. 28, 1827
Gibbs, Eli M.	Chenango co., N. Y.	Washing machine, improvement on Leavitt's	May 1, 1828
Goodall, N., and L.	Watertown, N. Y.	Barrels, kegs, &c., machinery for making	June 9, 1828
Tainter	Caroline, N. Y.	Washing and churning machine	Oct. 10, 1828
Grout, John	Rutland, Mass.	Staves, machine for dressing	Feb. 3, 1829
Goodrich, Charles B.	Do	Dresser, revolving stove	Feb. 4, 1829
Do	Le Raysville, Pa.	Washer and churn	Oct. 10, 1829
Gibbs, George B.	Auburn, N. Y.	Ch'rn	Nov. 30, 1829
Grover, Hosea H.	New Jersey	Bricks, tile, &c.	July 11, 1797
Hawkins, John	Pennsylvania	Collars for horses	April 10, 1800
Hottenstein, William	Massachusetts	Boots and shoes	April 10, 1800
Howard, Dean	Washington, D. C.	Brick and tile machine	May 15, 1800
Halfield, George	New Jersey	Splitting hides and skins	May 19, 1800
Harrison, Thomas O.	Norfolk co., Va.	Window sashes, hanging	Feb. 24, 1804
Hopkins, Wm. W.	New York	Sash springs	Nov. 19, 1804
Hoover, John			

B igham, Abn.	Hudson, N. Y.	Washing machine	May 4, 1805
Hodgson, William	Richmond, Va.	Tile and brick making	May 22, 1805
Hinman, John	New Haven, Ct.	Boards, planing machine, and sawing bellows	June 1, 1805
Hawkins, Joseph	Philadelphia, Pa.	Planing machine	Feb. 19, 1806
Harwood, William	Richmond, Va.	Pan tiles	July 3, 1806
Hays, Simeon	Poultney, N. Y.	Churn	Mar. 8, 1808
Howe, Nehemiah	Windham, Ct.	Do	April 25, 1808
Henry, Theron	Bloomfield, N. Y.	Washing machine	July 11, 1808
Hill, Eli F.	Fabius, N. Y.	Do do	Feb. 11, 1809
Hubbel, Ephm.	Middlebury, Vt.	Dyewood, machine for cutting	June 27, 1809
Hosford, A., & E. Kelsey	Berlin, Ct.	Washing machine and press	June 27, 1809
Harrington, Nathaniel	Whitestown, N. Y.	Churn	Oct. 11, 1809
Hall, Benjamin	Canaan, N. Y.	Boring machine for ship carpenters	Mar. 8, 1810
Do	Do	Borer, mitre point	Mar. 8, 1810
Hunt, Daniel	Stamford, Ct.	Mortar, machine for making	Mar. 22, 1810
Hines, Joseph	Providence, R. I.	Hammer, trip	June 16, 1810
Harris, Joseph B.	Philadelphia, Pa.	Brick or artificial stone without burning	Aug. 21, 1810
Hitchcock, Samuel B., & John Berment	Homer, N. Y.	Boots and shoes, making	July 30, 1811
Heaven, John	Montgomery co., Va.	Shingles, machine for dressing	Mar. 16, 1812
Hitchcock, Cyrus	Woodbury, Ct.	Churn	Aug. 7, 1813
Hochkiss, Josiah	Vernon, N. Y.	Washing machine	June 18, 1813
Hitchcock, Silas	Waterbury, Ct.	Do do	June 25, 1813
Hoadley, Benjamin	Fredericktown, Md.	Shaving woods for various purposes	June 14, 1814
Hall, Joshua	Goffstown, N. H.	Boots and shoes, cutting and forming	Dec. 15, 1815
Hoyt, Thomas R.	Charlestown, Mass.	Clamp for shoemakers	Dec. 6, 1817
Hall, Moses	New York	Morocco, dying and finishing	Dec. 31, 1817
Homer, Joseph	Pomfret, N. Y.	Bedstead, portable metallic.	Jan. 28, 1818
Holmes, Alanson	Georgetown, D. C.	Bellows, smith's	Mar. 28, 1818
Hurdle, Noble	Easton, Mass.	Catches, rule joint, for window	Oct. 1, 1818
Haywood, Anson		Stand, ink	Nov. 23, 1818

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	BESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Hasbrouck, W. M. D., & Jacob Diefenback	Bloomsbury, Pa.	Hides, machine for breaking	Feb. 28, 1819
Hadley, Joseph	Morristown, Vt.	Houses, to secure them from fire, building	Feb. 3, 1819
Harper, William	Nashville, Tenn.	Saddle seats, elastic	April 2, 1819
Hendrix, Beardsley	Springfield, N. Y.	Washing machine	May 6, 1819
Hedge, Samuel	WindSOR, Vt.	Leather, dyeing and polishing	July 22, 1819
Hale, John	Hillborough, N. H.	Churn	Dec. 15, 1819
Hawes, Cyrus	Bennington, Vt.	Square, carpenter's	Dec. 15, 1819
Howard, Eph'm, and Joshua Butters	Boston, Mass.	Leather, splitting	May 3, 1820
Hunt, Ralph	Ontario co., N. Y.	Dowelling heading for coopering	Dec. 11, 1820
Hart, Simeon	Monkton, Vt.	Boots and shoes, by rule, cutting	Mar. 3, 1821
Houch, Jac.	New Market, Md.	Razor strap	Jan. 24, 1822
Hyde, Reuben	Winchester, Mass.	Pales for fencing, machine for making	April 19, 1822
Haden, Benjamin, Jr.	Trenton, N. J.	Churn	June 15, 1822
Holmes, Nathaniel	Barnstable, Mass.	Stone, sawing	Jan. 24, 1823
Harry, Peter	Harrisonburg, Va.	Saddle tree and spring girth	Feb. 1, 1823
Herbert, O. R.	Mount Pleasant, N. J.	Bedstead	July 14, 1824
Haight, H., and H. White	Stamford, Ct.	Dyewoods, cutting, machine for	April 11, 1825
Houston, J. P., and O. Bachelder	Bedford, N. H.	Shaving leather	April 11, 1825
Humphrey, Asa	Gray, Me.	Churn	May 9, 1825
Herwick, Charles	New York	Dresses for boys	May 16, 1826
Hill, Benjamin K.	Richmond co., Geo.	Bricks, machine for mixing earth for	Feb. 17, 1827

Hawes, Paul	Lockport, N. Y.	Shingles, manufacturing	Mar. 30, 1827
Hills, Luther	Boston	Cork cutter	June 18, 1827
Hoard, George A.	Antwerp, N. Y.	Shingle machine, improvement on Hawes's	Sept. 20, 1827
Harvey, Thomas	Middletown, Del.	Spring, saddle	Jan. 24, 1828
Hyde, Silas	Arcadia, N. Y.	Bedsteads	May 2, 1828
Howe, Stillman, and Charles Chaffin	Holden, Mass. Maysville, Ky.	Shingle machine Washing machine	May 22, 1828
Hancock, George	Pottstown,	Shoes, horse	May 24, 1828
Hobert, Rob. E.	Oakum, Mass.	Casks, barrels, &c., machinery for making	May 24, 1828
Hale, John	Albany	Currier's knife	June 21, 1828
Harrington, Isaac H.	Canandaigua, N. Y.	Churn	June 28, 1828
Hathaway, Jos.	Pultney, N. Y.	Washing machine	Aug. 22, 1828
Holloway, Jos. & R.	Chester, O.	Straps, razor	Sept. 5, 1828
Howe, Thos.	Worcester, Mass.	Boots, measuring and cutting leather for	April 3, 1829
Hinds, Stephen	Montrose, Pa.	Washing machine	April 18, 1829
Howe, Thos.	Worcester, Mass.	Crimper, boot	April 25, 1829
Halderman, Mathieu	Trapp, Pa.	Saddle tree, leather	June 11, 1829
Hayward, Stephen	Plainfield, Mass.	Doors and windows, tightening	Oct. 12, 1829
Hanna, John S.	Mercer, Pa.	Brick machine	Oct. 17, 1829
Jarvis, Bill	New York	Shingles and board machine	Nov. 23, 1829
Johnson, Henry	-	Houses, roofs for	July 8, 1797
Jenks, Eben	Canaan, Ct.	Brick, fire	May 10, 1802
Jones, Eb'r	Alfred, Mass.	Washing machine	April 18, 1807
Do	Do	Washing machine, perpendicular	July 24, 1807
Do	Do	Stone, wood, &c., sawing	June 28, 1808
Jennings, Isaiah	New York	Furnaces, bellows pump for	June 28, 1808
Jones, Luther	Canton, Ct.	Churn	Sept. 20, 1808
Jones, Ezra G.	Otsego, N. Y.	Do	Dec. 10, 1808
Jackman, William	Painsville, O.	Washing machine	April 21, 1809
Jennings, Issiah	New York	Do do	Oct. 8, 1810
			June 13, 1810

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Judd, Oliver, jr.	Loudon, Mass.	Boards, timber, &c., sawing	-	May 1, 1810
Jacques, Eliphilet, jr.	Newburyport, Mass.	Washing machine	-	May 24, 1810
Jackson, James	Burlington, N. Y.	Moccasins, application of hat trimmings to	-	April 1, 1815
Jones, Nathan	Boston	Powder, pulverising substances to	-	July 23, 1816
Jordon, John	Rockbridge co., Va.	Window and door frames	-	April 30, 1817
Jacquith, Josiah	Sherburn, Mass.	Shingle and clapboard sawing machine	-	June 26, 1817
Justin, James	Pittsburg, Pa.	Washing and grinding	-	April 19, 1822
Judd, Eb. W.	Middlebury, Vt.	Marble sawing machine	-	Aug. 14, 1822
Jenckes, John C.	Providence, R. I.	Sick, machine for moving the	-	May 29, 1823
Jennings, Isaiah	New York	Sofas or sliding joint settees	-	June 25, 1823
Johnson, Eben	Lexington Height, N. Y.	Hubs, boring and reaming out, and letting boxes into	-	Nov. 7, 1826
Jackson, William, and	Speedville, N. Y.	Mortising and tenoning machine	-	Oct. 10, 1828
J. J. Speed, jr.	New York	Bellows for foundries, triangular	-	April 4, 1829
Jacks, W. J.	James City co., Va.	Shingle machine	-	Nov. 12, 1829
Jones, Parke	Fredonia, N. Y.	Do	-	Dec. 8, 1829
Johnson, Joel N.	Philadelphia	Bedstead	-	Aug. 10, 1791
Kuhn, Ludwig C.	Do	Marble, machine for cutting and polishing	-	Mar. 11, 1791
Do	New York	Bricks, tempering mortar for	-	Feb. 1, 1793
Kinsley, Apollos	Do	Mortar, tempering for bricks	-	Dec. 20, 1793
Kilborn, Jona.	Connecticut	Bark, machine for cutting	-	Aug. 23, 1800
Keeler, Walter, & Jas.	Do	-	-	-
Waring	Norwalk, Ct.	Churn, rocking	-	June 23, 1802
Kemp, Samuel J.	Hartford, Ct.	Sashes, springs for window	-	July 1, 1803
Kersey, Asahel A.	-	Shingle machine	-	Oct. 9, 1805

King, Nicholas	Washington City, D.C.	Churn, revolving	Mar. 10, 1808
Kennedy, Leond.	Hartford, Ct.	Washing machine	April 26, 1808
King, Elam	Johnstown, N. Y.	Do	May 14, 1808
Kimball, Shubael	Rhinebeck, N. Y.	Do	Aug. 12, 1809
Kneckland, Seth R.	-	Beef, machine for cutting smoked	Oct. 9, 1810
Kelley, Zacheus	Easton, Md.	Mitre machine	April 22, 1812
37 Kirk, Nathaniel, and Kimball, William, and Samuel C. Clark	St. Clairsville, O.	Hides, machine for breaking, hairing, &c.	July 18, 1812
Samuel Willard	Mount Vernon, N. H.	Boards and scaleboards, machine for planing barge	Oct. 23, 1813
Klasson, Charles	Baltimore	Saddles, spring	May 22, 1816
Keen, Joseph S.	Philadelphia	Stave joiner, double and parallel	Oct. 1, 1816
Kranser, Daniel	Reading, Pa.	Hydes, softening and distending dry	Aug. 18, 1820
Kelley, William & Na- than	Littleton, Mass.	Shoemaker's workstand	Oct. 13, 1820
Kirk, Jos.	Weston, Vt.	Horse frame for shoeing horses, swinging	Nov. 8, 1820
Kenrick, Charles	New York	Waistcoat and pantaloons	Feb. 8, 1822
Keith, A.	Winfield, N. Y.	Skins, splitting	June 19, 1822
Kurtz, Christopher	Lancaster, Pa.	Saddle trees	May 28, 1823
Kneeland, Tim. P.	Ogden, N. Y.	Brick machine, improvement on Lee's	June 21, 1825
Kendall, Wm.	Waterville, Me.	Boards, sawing	Jan. 16, 1826
Kelisey, Franklin	Middletown, Ct.	Washing machine	Sept. 28, 1827
Kiser, David	New York	Leather, water proof, making	Nov. 19, 1827
Kellog, John J.	Richmond, N. Y.	Mortising machine	Jan. 24, 1828
Knowles, Hazard	Colechester, Ct.	Buildings, covering	Oct. 10, 1828
Kilburn, Samuel	Sterling, Md.	Trip hammer, portable	Aug. 18, 1829
Kinower, Samuel	Boston, Mass.	-	Sept. 23, 1829
Leslie, Robert	Philadelphia, Pa.	-	Feb. 2, 1793
Leach, Caleb	Massachusetts	-	April 13, 1797
Long, William	Connecticut	-	Nov. 20, 1800
Lillie, William	West Chester, N. Y.	Skins, machine for splitting	Nov. 9, 1805

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Lee, Martin, and T. Barber	Oneida co., N. Y.	Washing machine	Oct. 1, 1807.
Lee, Martin	New York	Do do	June 4, 1808
Lister, Eb.	Killingworth, Ct.	Do do	July 11, 1808
Loomis, Dudley, and Ira Wellington	Springfield, N. Y.	Do do	July 11, 1808
Linsey, James	Cazenovia, N. Y.	Timber, sawing circular	Feb. 4, 1809
Lee, Martin	Burlington, N. Y.	Washing machine	June 8, 1809
Lapish, Benj. U.	Durham, N. H.	Churn	Aug. 15, 1809
Loosborow, Isaac	New York	Washing and scouring machine	June 26, 1810
Lund, Eleazer	Do	Boot legs, cramping Suvarrow	Aug. 14, 1810
Langdon, Barnabas, & Wm. Mowry	Washington co., N. Y.	Staves and heads of barrels	June 20, 1811
Loomis, John	Geneva, N. Y.	Shingle machine	Dec. 24, 1812
Lane, Joshua	Homer, N. Y.	Washing machine	May 15, 1815
Do	Do	Churn	May 15, 1815
Liddle, William	New Orleans	Biscuit machine	Sept. 21, 1815
Lannay, Peter	Baltimore, Md.	Leather, elastic water proof	Dec. 4, 1816
Little, Jos.	Hillsborough, N. H.	Casks, making	July 25, 1818
Leaming, Saml. M.	Lexington, Ky.	Saddle spring	July 25, 1818
Lloyd, Jos.	Orange co., N. Y.	Churn	Mar. 2, 1819
Laporre, Peter	Louisa co., Va.	Horses, machine for stopping	Mar. 20, 1821
Laporre, Peter	Richmond, Va.	Bridle	Aug. 15, 1822
Leavitt, Isaac	Turner, Maine	Washing machine	Aug. 12, 1823
Lannay, Peter	Baltimore	Beds, mode of warming	Nov. 11, 1823

Lewis, Seth	Louisiana	Brick, machine for making	Feb. 11, 1824
Lee, James	Ogden, N. Y.	Brick machine	Mar. 11, 1824
Lee, J., and J. Ring	Do	do	June 11, 1825
Lye, Hy.	Philadelphia	Leather, machine for facilitating sewing	Mar. 10, 1826
Le Roy, Simon	Mexico, N. Y.	Machine, mortising	July. 10, 1827
Lemon, Levi P.	Bath, Maine	Cloths, machine called the vanator for cutting	Jan. 9, 1829
Lareom, Amos	Watervliet, N. Y.	Washing machine	Jan. 16, 1829
Leonard, Nathan	Merriamck, N. H.	Boots and shoes, machine for pegging	June 11, 1829
Lindsey, S.	Fredericksburg, O.	Marble, machine for cutting and polishing	Oct. 21, 1829
Mallikin, Samuel	Philadelphia	Marble, sawing and polishing	Mar. 11, 1791
Mangin, Joseph F.	New York	Do	July 2, 1796
Do	Do	do	Feb. 16, 1797
Mansfield, Richard	Connecticut	Brick making	Oct. 28, 1800
Miller, Elz.	New York	Do machine	July 17, 1802
Miller, Nathaniel, and	Massachusetts	Brick and tile machine	-
Phil. W. Miller	Haddam, N. Y.	Window fastenings	-
Miller, Daniel M.	Philadelphia, Pa.	Dyewoods, machine for rasping, sawing, and grinding	-
Mathews, John	Alburg, Vt.	Planing and jointing machine	-
Mott, Jos. S.	Hartford, Ct.	Cradle, swing	-
Mills, Zachariah	Philadelphia	Dyewoods, grinding, sawing, and rasping	-
Mathews, John	Lexington, Mass.	Boot and shoe metallic bottoms	-
Millikin, Samuel	Philadelphia, Pa.	Boots and shoes	-
Montgomery, Wm.	Chester, Pa.	Shingle and stave machine	-
McLain, Jer.	Downingtown, Pa.	Churn	-
Moon, Samuel, jr.	Warren, N. Y.	Do	-
Millington, Ira	Rutland co., Vt.	Harness, carriage	-
Mirick, Benjamin	Baltimore, Md.	Clay, machine for tempering	-
Mathews, John	Washington, N. Y.	Churn	-
McCord, John	Boston, Mass.	Saddle, spring tree	-
Moseley, David C.	Ulster co., N. Y.	Churn	-
Mumford, Harry			Mar. 28, 1811

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Morgan, John	Philadelphia	Boots, cutting Cossack	April 10, 1811
McMurtry, Charles	New Malboro', Mass.	Bellows	July 8, 1811
Moore, Nathaniel L.	Smithfield, N. Y.	Boot legs, machine for cramping	Feb. 4, 1812
McDonald, James	New York	Brick machine	April 1, 1812
Morrill, Stephen	Readfield, Mass.	Hammer, trip	Sept. 28, 1812
Morrison, John H.	Boscawen, N. H.	Sawyer, expeditious	Mar. 18, 1814
Miller, Benjamin	Philadelphia, Pa.	Shoes, machine for cutting	May 9, 1814
Meeker, Benjamin	Brooklyn, N. Y.	Beef cutter	Oct. 21, 1815
Mason, Joseph	Cunnington, Mass.	Sock, Columbian	Feb. 8, 1816
Merrith, Oliver	Berkhempstead, Ct.	Shingles, sawing	May 22, 1816
Mitchell, William	Henrico, Va.	Brick machine	June 24, 1816
Munger, George	Cambridge, Md.	Window blinds	Mar. 20, 1817
Mitchell, William	Richmond, Va.	Brick making and clay grinding machine	Mar. 26, 1817
Mead, Nathan, and J.			
Cutal	Walpole, N. H.	Mortising machine	Nov. 3, 1817
Moon, Samuel	Pr. George's co., Va.	Dough, machine for kneading	Feb. 28, 1818
Mitchell, William	Springhill, Va.	Brick making	May 28, 1818
Mixer, Nathan	Keene, N. H.	Saddle tree springs	May 28, 1818
Meer, John	Philadelphia, Pa.	Book binding	Aug. 26, 1818
Martin, Peter H.	Nashville, Ten.	Saddle seat, elastic	Feb. 23, 1820
Morris, John J.	New York	Saddles, making	Aug. 28, 1821
Mitchell, James	Philadelphia, Pa.	Sugar, machine for breaking	Sept. 11, 1822
Mane, Honore	Point Coupee, La.	Brick moulding machine	Nov. 23, 1822
Miner, Amos	Camillus, N. Y.	Pales for fences	April 25, 1823
Miner, Amos	Elbridge, N. Y.	Window sash, machinery for making	July 9, 1823

Menefee, John	Landry parish, La.	Brick machine	Aug. 7, 1823
Martin, Eb.	Salem, N. J.	Boot and shoe making	Jan. 12, 1824
Martin, Rob. C.	Philadelphia	Trunks, leather	Aug. 28, 1824
Morris, Ephm.	Bloomfield, N. J.	Dyewood, machine for cutting and chipping	Sept. 27, 1825
McClintic, John	Chambersburg, Pa.	Bedstead, draw key	Nov. 2, 1825
Mitchell, John	Harrisburg, Pa.	Bedsteads, bevelled, grooved, and dovetail joints	Jan. 11, 1826
Mudge, Richard V.	Durham, N. Y.	Washing machine	April 12, 1826
Madison, J. and E., and P. S. Matters	Easton, Pa.	Slates, manufacturing	Dec. 22, 1826
Moorehouse, Samuel	Eastport, Maine	Boot crimpers	June 19, 1827
Mann, E., & G. Hill	Rochester, N. Y.	Brick, &c., portable frame for raising	July 21, 1827
McClintic, John	Chambersburg, Pa.	Mortising and tenoning timber	Oct. 8, 1827
McAllister, Archd.	Salem, N. Y.	Marble, cutting, sawing, and polishing	Feb. 18, 1828
McNarry, Isaac	Stafford, Ct.	Window sashes, cast iron	Feb. 23, 1828
Marsh, Wm. E.	Westfield twns ^p , N.J.	Mortising machine	April 18, 1828
Marshall, Alex.	Pikeland twns ^p , Pa.	Saddle	April 30, 1828
Mitchell, George P.	Burlington, N. J.	Leather, machine for cutting	May 15, 1828
Miller, Henry B.	Mayville, N. Y.	Boot trees	Aug. 25, 1828
McDonald, James, and Robert McQueen, jr.	New York	Brick machine, improvement on McDonald's	Nov. 19, 1828
Mosher, Reuben	Galway, N. Y.	Brick, planing, grooving, cutting boards, and dressing	Jan. 8, 1829
McNeil, John	Coleman town ^s , Pa.	Hammers, hanging forge, called the Clambost	Jan. 21, 1829
McClintic, John	Chambersburg, Pa.	Veneers, slitting tenons, &c.	April 21, 1829
McPharin, Ab. A.	Huntington, Pa.	Bellows, tub	June 11, 1829
Marshall, Samuel	Philadelphia, Pa.	Boots and shoes, cutting	June 23, 1829
Murray, Abner	Athens, N. Y.	Cream and milk, churning	June 27, 1829
Medley, Reuben	Bloomfield, Ky.	Mortising, sawing and boring machine	July 7, 1829
Madison, Otis	Troy, N. Y.	Garments, rule, mathematical, for cutting	Aug. 18, 1829
McOmbre, Richard.	Galway, N. Y.	Shingle machine	Oct. 10, 1829
Mosher, Pinkham	Balston Spa, N. Y.	Washer, Queen's	Oct. 10, 1829

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Morrison, T. & L.	Groton, N. Y.	Churn box	Oct. 16, 1829
Nicholson, Rob. & Thos.	Bairdstown, Ky.	Shingle machine	Dec. 13, 1808
Nicholson, Thomas	Nelson co., Ky.	Churn	Aug. 10, 1809
Noble, Sylvester	Hosick, N. Y.	Washing machine	Feb. 1, 1810
Newell, Daniel	Saratoga, N. Y.	Shingle and stave dressing machine	July 26, 1810
Nixon, Samuel	Prince George's co., Va.	Kneading dough	Feb. 28, 1818
Neff, George	Pennsylvania	Sausage meat, machine for cutting	Mar. 19, 1811
Norris, S., and J. C.	Philadelphia, Pa.	Shoes, socks, &c.	Jan. 30, 1822
Wood	Do	Saddle trees	Aug. 29, 1822
Null, Anthony	Middlebury, Ct.	Scaffolds, machine for raising and supporting	April 24, 1824
Nichols, Henry L.	Caledonia, N. Y.	Staves, shaving and setting	Nov. 26, 1824
North, Daniel S., and H. Naranior	Philadelphia	Boots and shoes, water proof	Dec. 14, 1825
Nagle, Patrick G.	Madison, Va.	Boot tree screw	Sept. 8, 1826
Nicol, George	Danvers, Mass.	Boots or shoes, mode of holding	Dec. 8, 1827
Nourse, Samuel	Connecticut	Window sash, fastening	Nov. 24, 1803
Osborn, Jacob	Brookfield, Mass.	Boards, machine for slitting	June 29, 1808
Olds, Ez.	Charlestown, Mass.	Washing machine	July 11, 1808
Osgood, Thomas	Madison co., N. Y.	Washing and churning	June 7, 1809
Osgood, Gardner	Berkshire co., Mass.	Churn	Jan. 8, 1810
Osborn, David	Do	Hammer, trip	Jan. 8, 1810
Osborn, Ezra	Greensburg, N. C.	Timber, sawing circular	Sept. 15, 1826
Overman, Benj.	Terre Haute, Ind.	Straps, improvement on Jacobs's razor	Jan. 21, 1829
Osborn, John W.	New York	Churn, labor saving	Jan. 22, 1829
O'Brien, Samuel J.			

Olds, Ez., and Pliny			
Upham	Brookfield, Mass.	Sawing machine	Dec. 26, 1810
Pettibone, Nathaniel	New York	Dough and paste, breaking	Nov. 16, 1797
Parsons, Stephen	Massachusetts	Sashes, window	Nov. 20, 1797
Pierce, Joel	New York	Churning machine	April 10, 1802
Payn, Stephen	-	Skins, machine for splitting	Mar. 31, 1806
Pierpont, Daniel	New Haven, Ct.	Churn	April 22, 1808
Patton, Robert	Columbia, Pa.	Washing, churning, and getting out clover seed	June 13, 1808
Paine, Asahel E.	Delhi, N. Y.	Washing machine	July 1, 1808
Parker, Samuel	Billerica, Mass.	Leather, currying and finishing	July 9, 1808
Prescott, Enos	New Marlboro', Mass.	Washing machine	July 11, 1808
Parmelee, Dan.	Dutchess co., N. Y.	Churn, rocking	Sept. 8, 1808
Parker, Samuel	Fishkill, N. Y.	Leather, currying and finishing	Sept. 26, 1809
Pierce, Thomas	Boston, Mass.	Washing machine	June 24, 1809
Perkins, Jacob	Do.	Leather, polishing, and graining morocco	June 26, 1809
Perry, Nathaniel	Otsego co., N. Y.	Bureau dressing table	Oct. 13, 1809
Phillips, Rozell	Killingworth, Ct.	Washing machine	Oct. 14, 1809
Parmelee, Henry	Reading, Ct.	Mortising machine	Feb. 15, 1810
Parmelee, David	Parsonfield, Mass.	Wheelwright's, carpenter's work, &c., sawing various articles	Oct. 25, 1810
Parson, Seth	Sharon, Ct.	Currier's knife	Oct. 25, 1810
Parker, Daniel, & John	Sanford	Shingles, machine for sawing	May 30, 1811
Pratt, Thomas	Cheshire, N. H.	Churn, horizontal vibrating	Sept. 12, 1811
Phinney, Zina	Cairo, N. Y.	Washing and churning machine	June 19, 1812
Palmer, Joseph	Brookfield, N. Y.	Washing machine, facilitating	Aug. 21, 1812
Parker, Samuel	Billerica, Mass.	Leather, splitting and shaving	April 3, 1813
Pope, Samuel	Windsor, Ct.	Cradle	June 15, 1813
Paine, Osias	Foxborough, Mass.	Shingle machine	June 18, 1813
Pumphrey, William	Ohio	Churn	Jan. 5, 1814
Phinney, Zina	Green co., N. Y.	Butter from lard, making	March 4, 1814

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Palmer, Urban	Spencer, N. Y.	Hammer, trip	July 31, 1815
Pinkney, Israel	New York	Boot, cylindrical, cleaner	April 16, 1817
Porter, Nathan	Suffield, Ct.	Churn	April 7, 1818
Peck, Daniel	New York	Boots and shoes, manufacturing	Aug. 14, 1821
Powles, Daniel	Baltimore	Bedsteads	Oct. 31, 1821
Pomeroy, Eb. G.	Lancaster, O.	Boots and shoes, crimping	July 27, 1824
Pool, Daniel	Philadelphia	Crackers, rolling and cutting	Dec. 24, 1824
Pray, E., E. Benjamin and J. S. Stone	Maine	Boards, machinery for sawing clap Ware, wooden	Dec. 28, 1824
Parke, L. Z.	Windham, N. Y.	Saddles	June 14, 1825
Prettyman, Thomas G.	Alexandria, D. C.	Shingle sawing machine	Sept. 30, 1825
Parker, Ephraim	Cheshire co., N. H.	Mortising rocking	Dec. 17, 1825
Phillip, John G.	Kinderhook, N. Y.	Currier's knife	April 12, 1826
Palmer, Freeman	Littleton, N. H.	Stirrup irons	Mar. 17, 1826
Powles, Daniel	Baltimore, Md.	Bedsteads, sackingbottoms, &c.	Jan. 26, 1827
Do	Do	Churn, rocking	Jan. 26, 1827
Phillip, John G.	Kinderhook, N. Y.	Sofa and bedstead united	Feb. 15, 1827
Penniman, John R.	Boston, Mass.		Aug. 22, 1827
Pierce, E., & J. Hathaway	Pultney, N. Y.	Hammer, foot trip	Oct. 19, 1827
Palmer, Rufus R.	Caroline, N. Y.	Washing and churning machine	Mar. 21, 1828
Pearson, Paul, & John			
Home	Alna, Me.	Boxes for sugar, making by machinery	April 15, 1828
Parker, Moses P.	Lowville, N. Y.	Washing machine	May 1, 1828
Post, Calvin	Springport, N. Y.	Washing machine, rotary	July 15, 1828

Price, Isaac, Jr.	Lockport, N. Y.	Hoops, laths, staves, &c.	Aug. 19, 1828
Post, Garret	Auburn, N. Y.	Bedstead, revolving rail and round tenon	Oct. 11, 1825
Parkerson, John	Boston, Mass.	Window blinds	Oct. 11, 1828
Paign, Harvey	Alexandria, N. Y.	Leather rolling machine	Dec. 23, 1828
Pratt, Joel B.	Milo, N. Y.	Washing and churning machine	July 14, 1829
Quincy, Abram H.	Boston, Mass.	Inksstands, stone, manufacturing	Sept. 3, 1811
Rumsey, James	Berkeley co., Va.	Bellows	Aug. 26, 1791
Ridgway, David	Philadelphia, Pa.	Bricks, making	Mar. 7, 1792
³⁸ Richards, George	Stonington, Ct.	Dough, making	Feb. 14, 1806
Reed, Aaron	Columbia co., N. Y.	Churn	April 25, 1808
Reed, Jesse	Boston, Mass.	Dyewood, machine for rasping, &c.	June 3, 1808
Ross, Asa	Cazenovia, N. Y.	Brick making	Sept. 21, 1808
Ridgway, David	Beaver, Penn.	Leather striping machine	Oct. 26, 1809
Ritter, Chris.	Leesburg, Va.	Planing machine	Aug. 11, 1809
Robinson, Rob.	Newburyport, Mass.	Washing machine	Nov. 3, 1809
Do	Norfolk, Ct.	Leather, stamping and staining, process and machinery	Mar. 19, 1810
Richards, Rob. W., &	Germantown, Pa.	Leather prickling machine	April 24, 1810
Mills Richards	Norfolk, Ct.	Washing and churning	April 25, 1810
Roberts, Jesse	Franklin, N. Y.	Dyewood, machine for cutting	Aug. 13, 1810
Richards, Jedediah, 3d	Do	Washing machine	Dec. 15, 1810
Robinson, Daniel	Norfolk, Ct.	Churn	May 3, 1811
Do	Manlius, N. Y.	Boots and shoes with wooden pegs, screws, &c.	May 23, 1812
Richards, Rob. W.	Western, Mass.	Bread, machine for making	Feb. 8, 1813
Richards, George	Dutchess co., N. Y.	Gauge for trip hammers when plating seythes	May 17, 1814
Richardson, Benj.	Raymond, Geo. B., & G. Turnbull	Tenons, machine for cutting in carriage wheels	June 24, 1815
Reynolds, Jona.	Richardson, R. B.	Joint, carpenter's sliding dovetail	April 23, 1816
Rowen, Thomas	Ramsey, Alexander	Bellows, japanned	Aug. 22, 1817
		Sewer, common mouth	Oct. 3, 1820
		Shoes, wooden pegs for Hartford, Ct.	Nov. 24, 1820

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Reeve, G. F., and J. Ketcham	Orange co., N. Y.	Churning, inclined wheel applied to, by dogs	Aug. 10, 1821
Reed, Briggs R.	Danvers, Mass.	Treading bricks	May 29, 1823
Richards, Rob. W.	Winchester, Ct.	Tubs, pails, kegs, &c.	Jan. 19, 1824
Rose, Hugh M.	Lexington, Ky.	Saddle, double side	June 19, 1824
Rowell, Thomas	Hartford, Vt.	Shoes, pointing, splitting, and waxing pegs for	Feb. 11, 1825
Ripley, Ezra	New York	Mortising machine	Dec. 22, 1825
Ross, Greenberry	Carlisle, Ky.	Tailoring, art of	April 5, 1826
Ruggles, Barnabas	Poultney, Vt.	Felloes, sawing wood for	June 29, 1826
Read, Philip P.	Mercer, Me.	Trip hammer	Dec. 7, 1826
Read, Dan. H.	New York	Bridles, manufacturing	Oct. 24, 1826
Rising, David	Atchester, Vt.	Brick machine	Mar. 21, 1827
Rosenkrans, Levi	Urbana, N. Y.	Churn	May 19, 1827
Reed, Charles B.	W. Bridgewater, Mass.	Stone, hewing, and hammering	June 27, 1827
Rawlings, George	Philadelphia, Pa.	Cork cutting machine	Oct. 30, 1827
Reilm, Josiah	Savage Factory, Md.	Planing machine	Nov. 1, 1827
Rice, Benjamin	Denmark, N. Y.	Washing clothes and shelling corn	Nov. 23, 1827
Rising, David	Colchester, N. Y.	Brick machine	Jan. 29, 1828
Rosenkrans, Levi	Big Flatt, N. Y.	Hammer, trip	Mar. 17, 1828
Read, Cheney	Western, Mass.	Shingles, sawing	April 2, 1828
Read, Daniel	Slaterville	Churn and washing machine	June 16, 1828
Rice, Levi	Lockport, N. Y.	Laths and other lumber	July 23, 1828
Richards, Jedediah	Elbridge, N. Y.	Window sash, blinds, &c.	Nov. 14, 1828
Rider, Nathaniel	Starbridge, Mass.	Cooper's work, machine for making all kinds of	April 1, 1829
Reed, Freedus	Pike township, Pa.	Washing and churning machine	June 11, 1829

Rogers E., & M. Pearson	Essex co., Mass.	Bedsteads	June 11, 1829
Rundle, Thomas	Boston, Mass.	Privies and vaults	Sept. 10, 1829
Robinson, William S.	Taunton, Mass.	Harness, trimmings, and carriage ornaments	Sept. 22, 1829
Rynex, J., John Haskins, & S., Knower	Boston, Mass.	Boots and shoes, perpetual polished water proof	Sept. 23, 1829
Stansfield, James	Virginia	Skins, splitting sheep	Nov. 16, 1796
Sixney, Thomas	Massachusetts	Saddles	Nov. 16, 1797
Stillman, William	Rhode Island	Plough, veneering	Mar. 16, 1801
Stevens, Levi	Connecticut	Churn, machine for top	May 8, 1804
Scott, Isaac	New Haven, Ct.	Window spring	Dec. 26, 1804
Selden, Roger	Alford, Mass.	Boring machine, perpendicular	July 7, 1806
Scripture, John	Cazenovia, N. Y.	Churning machine	Dec. 15, 1807
Stackhouse, Stephen	Otsego, N. Y.	Churn	Mar. 11, 1808
Smith, John	Norwich, Ct.	Hammer, trip	Oct. 14, 1809
Smith, Roger	Petersburg, Pa.	Window, spring bolt and key	Mar. 8, 1810
Shriver, David	New York	Hoops, machine for shaving out of split timber	Mar. 17, 1810
Sheffield, William E.	Norwich, Ct.	Felloes, sawing	Dec. 21, 1809
Smith, Roger	Tyngsborough, Mass.	Window, spring bolt and key	Mar. 5, 1810
Smith, Aaron	Norwich, Ct.	Churn	April 11, 1810
Smith, Roger	Springfield, Mass.	Wood, in a circular manner, sawing	April 24, 1810
Sheldon, William, jr.	New York	Slates, application to various uses	Feb. 28, 1811
Selby, Jer.	Enosburg	Boot legs, Suwarrow, machine for cramping	April 25, 1811
Stone, Samuel	Philadelphia, Pa.	Dyewood, rasping or sawing	May 3, 1811
Smith, Haziel	Canaan, Mass.	Chopper, meat	July 19, 1811
Sheppard, Jos. H.	Philadelphia, Pa.	Churn	Oct. 1, 1811
Shebe, Adam	Colchester, Ct.	Do	Nov. 27, 1811
Sperry, David	Lynchburg, Va.	Hubs and felloes, boring	May 12, 1812
Stanton, William	Philadelphia, Pa.	Washing machine	May 12, 1812
Sutherland, John T.	Orange co., Va.	Book binding	July 27, 1812
Smether, Rob.	Middletown, Ct.	Bridles	Dec. 10, 1812
Starr, Jehosaphat		Bread, ship and other	Jan. 8, 1813

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Stiles, Chauncey	Philadelphia, Pa.	Saddle trees	-	June 28, 1814
Snow, Sullivan	Saco, Me.	Tables, manufacturing	-	Mar. 2, 1815
Soper, Joel	Windsor, Ct.	Bench, shoemakers' mechanical	-	Aug. 12, 1815
Seibold, Chris.	New Berlin, Pa.	Washing machine	-	Feb. 1, 1816
Swift, Beriah	Washington, N. Y.	Dyewoods, machine for rasping and cutting	-	Feb. 1, 1817
Stewart, Adam	Baltimore, Md.	Veneering, sawing	-	July 5, 1817
Shepherd, Isaac	Meredith, N. H.	Butter, making	-	May 28, 1818
Storm, Thomas T.	New York	Churn	-	May 28, 1818
Stewart, Adam	Baltimore, Md.	Brick making machine	-	April 8, 1819
Salisbury, Hez., jr.	Brattleborough, Vt.	Window springs	-	May 24, 1819
Simmons, Samuel	Baltimore, Md.	Cradle and chair rockers	-	Dec. 21, 1819
Swart, Adam	Saratoga, N. Y.	Churn	-	April 9, 1821
Stubbs, J. E., and J. Bonner	Cincinnati, Ohio	Brick and tile [®] making	-	May 10, 1822
Sealy, Richard	New York	Bedbugs, destroying	-	June 20, 1823
Sternberg, Peter	Danube, N. Y.	Shoes for horses and oxen	-	April 10, 1824
Sawyer, James	Templeton, Mass.	Shingle machine	-	May 4, 1824
Staples, John J., and Wm. H. Cornell	New York	Moccasins, making moulds	-	Dec. 15, 1824
Secor, Elijah	Do	Sign for lottery offices	-	Feb. 9, 1824
Smith, Richard W.	Baltimore, Md.	Bricks, fire	-	Sept. 27, 1825
Smith, Junius	London, Eng.	Washing by steam	-	Jan. 28, 1825
Severson, Stephen	Baltimore, Md.	Garments, measuring for cutting	-	Mar. 15, 1826
Starr, N. B.	Philadelphia, Pa.	Garments, scale for draughting	-	July 10, 1826
Sitton, John	Pendleton, S. C.	Wheelwright's assistant	-	Feb. 15, 1827

Stone, Chester	Middlebury, Ct.	Washing machine	Feb. 17, 1827
Sperry, David	Colchester, Ct.	Boring and tenoning machine	Feb. 18, 1827
Spain, Ed.	Mount Holly, N. J.	Churn	April 23, 1827
Streeler, J. H., & J. S.			
Wilbert	Chili, N. Y.	Mortar machine, and grinding apples	June 12, 1827
Swift, Nathan	Lebanon, Ct.	Shingle sawing machine	April 27, 1827
Simpson, John R.	Boston, Mass.	Saeking, mode for tightening bed	July 10, 1827
Sheidan, Daniel	Pultney, N. Y.	Churn	Sept. 13, 1827
Syms, John	New York	Moocasins, water proof	Nov. 10, 1827
Shute, James D.	Boston, Mass.	Vests, spring stiffener for	Dec. 5, 1827
Slayton, Phineas	Lockport, N. Y.	Hoops, machine for sawing	May 1, 1828
Spain, Ed.	Mount Holly, N. J.	Churn	April 23, 1828
Strann, Abm.	Pennsylvania	Leather, water proof	June 30, 1828
Seely, Holly	Unadilla, N. Y.	Window fastening, self adjusting spring	July 14, 1828
Swift, William, & W.	Ottowell	Bedstead fastenings	Oct. 11, 1828
Symington, Thomas	New Bedford, Mass.	Slates, machinery for making	Nov. 17, 1828
Sterling, W. G.	Baltimore, Md.	Sugar, machine for breaking	Jan. 28, 1829
Stocking, Geo. A.	Bridgeport, Ct.	Washing machine	Sept. 10, 1829
Smith, Amos F.	Aurelius, N. Y.	Saw, veneering	Sept. 10, 1829
Sillbridge, G. R.	Salem, Mass.	Stock, composition hinge	Oct. 10, 1829
Shively, H.	New York	Washing machine	
Saxton, Horace	Paris, N. Y.	Churn	Nov. 6, 1829
Townsend, Wm. W.	Sandy Hill, N. Y.	Churn	Mar. 22, 1808
Townsend, Erastus	Canaan, N. Y.	Do	July 12, 1808
Tucker, Septimus	Dublin, Pa.	Washing and wringing machine	Jan. 12, 1809
Thomson, Luther	Sturbridge, Mass.	Churn	June 24, 1809
Thayer, Elijah	Leicester, Mass.	Boots and shoes, manufacturing	Mar. 14, 1812
Truman, James	Philadelphia	Washing machine, called the steam washer	Aug. 21, 1812
Twombly, Ephraim	Norway, Mass.	Iron bound boots and shoes	Aug. 28, 1812
Trumbull, Shadrack	Suffield, Ct.	Window spring bolt	April 23, 1816

LIST OF PATENTEES—COMMON TRADES.—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Talbot, Sylvester	Dedham, Mass.	Ruffles, plaiting	May 4, 1816
Treadwell, Ephm.	Essex co., Mass.	Bricks, air conducting for stoves	Sept. 12, 1816
Tyler, Benj. and John	Clarendon, N. H.	Bellows, wooden	Feb. 1, 1817
Treadwell, Ephm.	Philadelphia	Bread finisher	Jan. 10, 1820
Tomlinson, Daniel	Brookfield, Ct.	Currier's knife	July 6, 1820
Tillotson, Alfred	New York	Moccasins	Nov. 22, 1823
Taylor, S. W. and J. W. Martin	Lowville, N. Y.	Buildings for school rooms	April 16, 1825
Torrey, Harlow J.	New York	Marble, grooving and heading	Nov. 1, 1825
Do	Do	Do smoothing and polishing, &c.	Nov. 1, 1825
Thurston, Edward	Burlington, Vt.	Washing machine	Mar. 8, 1826
Trask, John	Hadfield, Mass.	Boots and shoes, making	April 5, 1826
Treadwell, Ephm.	New York	Bread, biscuit and sugar	May 18, 1826
Thayer, Elijah	Leicester, Mass.	Boots and shoes, manufacturing	June 9, 1826
Towson, Jos.	Baltimore	Stock	May 14, 1827
Thurber, Hez.	Painted Post, N. Y.	Peg cutting machine	May 22, 1828
Travis, John J.	Franklin, Ct.	Leather belt and picker, preparing	Oct. 22, 1828
Taylor, Caleb	Angola, N. Y.	Planing and grooving machine	Feb. 7, 1829
Taylor, John	Dunstable, N. H.	Washing machine	April 1, 1829
Tomlinson, Peter	Derby, Ct.	Plank, sawing logs into	April 3, 1829
Torrey, Jesse	Germantown, Pa.	Book binding	Aug. 8, 1829
Tilden, Richard S.	Lynchburg, Va.	Houses, covering with tin plate, sheet iron, &c.	Sept. 10, 1829
Toupet, Charles	New York	Feather cleaning machine	Oct. 15, 1829
Thompson, Jonah	Philadelphia	Casks, application of steam to making	Dec. 30, 1829
Votee, George	Berlin, Ct.	Churn	May 10, 1809

Van Zandt, Nich. B.	Wash'n City, D. C.	Washing machine	May 21, 1809
Vernon, John	Baltimore, Md.	Boot legs, cutting and making	Oct. 21, 1811
Weld, Ezra	Massachusetts	Washing machine	June 26, 1798
Do	Do	Do	Sept. 17, 1799
Walcott, Benj. S.	Connecticut	Window sash and shutter fastening	Sept. 4, 1802
Wing, Abner	Washington, N. Y.	Churn	May 26, 1809
Woodsend, Thos.	Hudson, N. Y.	Slates for roofing	Aug. 7, 1806
Willard, Simon, Jr.	Bloomfield, N. Y.	Washing machine	April 25, 1807
Willard, Simeon B.	Hartford, Ct.	Churn	May 18, 1808
Wadsworth, Wm.	Newtown, Ct.	Washing machine	Mar. 15, 1808
Winchester, Stephen	Bloomfield, N. Y.	Washing and churning machine	Aug. 31, 1808
Willard, Simon B.	Hartford, Ct.	Floors, scrubbing machine for	Nov. 17, 1808
Worthington, David	Worcester, Mass.	Window sashes, machine for laying out	April 27, 1809
Woodcock, John	Litchfield, Ct.	Skins, splitting	May 8, 1809
Wetmore, John	Milton, Mass.	Churn	Dec. 8, 1809
Wadsworth, John	Providence, R. I.	Jointer and gauge machine	Feb. 10, 1810
Whiting, Nath. P.	Gr. Barrington, Mass.	Hides, splitting and shaving	April 25, 1810
Webster, John	Worthington, Danl., Nor-	Boring machine	May 1, 1810
Washburn, Danl., Nor-	thorp Rockwell, and		
James O. Walker	Castleton, Vt.		
White, Philip	Worcester, Mass.	Leather and skins, splitting and shaving	Aug. 16, 1810
Walcott, Peter T.	Monmouth co., N. J.	Bedstead, easy draught	Nov. 1, 1810
Woodward, Fred.	New Lisbon, N. Y.	Leather, shaving	Jan. 6, 1812
Whipple, John F.	Easton, N. Y.	Washing machine	July 27, 1812
Wethers, Simon B.	Bloomfield, N. Y.	Stone, sawing, polishing and moulding	June 10, 1813
Webb, Benjamin	Tolland, Ct.	Churn	Nov. 3, 1813
Way, Baruck	Ontario co., N. Y.	Bench, shoemakers' work	Aug. 22, 1816
Watson, Jos.	New Canaan, Ct.	Fetters, horse	June 7, 1817
Wright, Daniel	Franklin, N. Y.	Timber, splitting	Jan. 15, 1818
Walker, Elihu	Aurora, N. Y.	Saddles, making	Jan. 15, 1818
			Nov. 16, 1820

LIST OF PATENTEES—COMMON TRADES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Ward, Allen	Huntsville, Ala.	Clothes, cutting out	June 16, 1821
Williamson, Peregrine	Baltimore	Bedsteads	Dec. 6, 1821
West, B., and C. Soper	Rome, N. Y.	Window shutter fastenings	Jan. 31, 1822
Watson, David	Fayette, Me.	Washing machine	Oct. 15, 1822
Williamson, Per.	Baltimore, Md.	Bedstead	Oct. 17, 1822
Wright, Horace	Onondaga, N. Y.	Coopers' work, machinery for	Oct. 23, 1822
Williams, James R.	Baltimore, Md.	Frame for finishing ladies' dresses	Mar. 3, 1824
Wadsworth, J. A. & C.	Portsmouth, R. I.	Selvage, double stitched	Oct. 5, 1824
West, John	Middletown, Ct.	Washing machine	Dec. 14, 1824
Wheeler, Reuben	Vergennes, Vt.	Washing machine, lever	Feb. 26, 1825
Wilkinson, Job.	Pennfield, N. Y.	Boring and mortising machine	May 28, 1825
Waterhouse, Ez.	Gardner, Me.	Churn, double dash	Sept. 29, 1825
White, Lacy	New York	Saddles	Sept. 30, 1825
Whitman, Stephen W.	Madison, O.	Shoes for horses and oxen, cast iron	Nov. 4, 1825
Warren, Admiral	Saugerties, N. Y.	Boring and tenoning machine	April 17, 1826
Watson, David	Fayetteville, Me.	Brick moulding machine	May 6, 1826
Wilkes, George	Fredonia, Ind.	Saddle trees	Nov. 22, 1826
Wilson, James G.	New York	Garments, square for cutting	Feb. 28, 1827
Whitney, Nathan	Augusta, Me.	Churn	May 7, 1827
Wibert, J. S.	Chili, N. Y.	Bellows	June 12, 1827
Wheeler, Oliver	Rochester, N. Y.	Shingles, manufacturing	Nov. 10, 1827
Williams, John	Baltimore, Md.	Stand, wash	Mar. 15, 1828
Waters, Hiram	Watertown, N. Y.	Coopers' work, manufacturing	April 3, 1828
Wilburn, Harvey	Newburyport, Mass.	Bedsteads	June 16, 1828
Willard, Simon, jr.	Cincinnati, O.	Washing machine	Aug. 2, 1828

Wilder, Danforth	Rome, N. Y.	Shingle machine	Aug. 25, 1828
Williams, Daniel, Jr.	Colechester, Ct.	Doors, constructing	Oct. 11, 1828
Ward, Allen	Philadelphia, Pa.	Ruler, triangular measure case	Oct. 11, 1828
Woodworth, Wm.	Hudson, N. Y.	Planing, grooving, cutting boards, and dressing brick	Dec. 27, 1828
Wade, Elias	Elizabethtown, N. J.	Sausage machine	Jan. 26, 1829
Wood, Jas.	Rockland co., N. Y.	Brick and tile machine	Mar. 3, 1829
Wheeler, Eph'm	Galway, N. Y.	Washer, complete	June 11, 1829
White, Job, and P.	Belfast, Me.	Veneer and pannel cutting machine	Sept. 12, 1829
Quinby	Holden, Mass.	Shingle machine	Nov. 10, 1829
Wood, Simeon	E Haddam, Con.	Washing, eclipse	Nov. 19, 1829
Wright, Charles D.	Philadelphia, Pa.	Houses, shingling roofs of	May 11, 1807
Young, Thomas	Do	Lasts for boots and shoes	May 20, 1807
Young, William	New Brunswick, N.J.	Washing machine	Mar. 11, 1807
Yarwood, Joseph			

LIST OF PATENTS—WHEEL CARRIAGES.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEE.	RESIDENCE.	WHEN ISSUED.
Alarm for coaches	Walter Hunt	New York	July 30, 1827
Axle trees and boxes	Cyrus Beach	Newark, N. J.	June 26, 1807
Do do diminishing friction of	Robert Kilborn	Gr. Barrington, Mass.	April 12, 1808
Do do machine for greasing	Fred. Beimler	New York	Aug. 22, 1816
Do moveable	George N. Reynolds	Charleston, S. C.	April 29, 1819
Do	{ Daniel W. Phillips &	Middlebury	April 23, 1828
Bodies, Grecian chaise	{ and Wm. Maher	Covington, N. Y.	
Do carriage, called the standing roof landau	Phineas Dow	Boston, Mass.	Aug. 15, 1810
	Edward Gibson	New York	May 10, 1811

LIST OF PATENTS—WHEEL CARRIAGES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Bodies, carriage	Henry Dunlap	Georgetown, D. C.	Aug. 27, 1812
Do do and stage	Joseph Smith	Lancaster, Pa.	April 29, 1815
Do do	Jesse Reeder	Lebanon, Ohio	Mar. 4, 1828
Do wagon, raising and lowering	Thomas Scott	Loudon, Pa.	Mar. 3, 1829
Boot spring, box, open packed	Wm. Atchison	New York	May 23, 1815
Boot for stages	Peter Laporte	Augusta co., Va.	July 28, 1828
Boxes for wood or iron to turn in	Wm. Shotwell	New Jersey	Feb. 2, 1800
Do carriages	Thos. B. Whitlock	Do	Feb. 23, 1802
Do carriage wheels	James Gredley	Boston, Mass.	May 23, 1806
Do	Levi Brown	Berkshire, Mass.	May 30, 1806
Do axle trees	Aaron Broad	Salisbury, Ct.	June 14, 1809
Do wheels	John Nicholson	Herkimer, N. Y.	April 28, 1810
Do and axle trees	Wm. Batchelor	New York	May 2, 1816
Do with anti-friction rollers	W ^m . Edwards	Baltimore, Md.	Sept. 11, 1817
Do casting	Calvin Darby	Worcester, Mass.	Jan. 22, 1825
Do cast iron	Jer. Wilse	Chambersburg, Pa.	Dec. 28, 1825
Do self fastening	Thomas Mussey	New London, Ct.	June 11, 1829
Brake wagon, self regulating	Robert Turner	Ward, Mass.	Aug. 29, 1828
Carriages, propelling	J. Staples	New York	April 25, 1794
Do do	William Ferris	Maryland	April 29, 1797
Do constructing	John C. Stroebel	Pennsylvania	Sept. 19, 1803
Do	Stephen W. Dana	Rutland, Vt.	Aug. 30, 1808
suspending pleasure	Joseph Henderson	Guildford, Ct.	Dec. 26, 1808
Do	William Ross	New York	Jan. 14, 1809
Do	Lyman Cook	Whitestown, N. Y.	Mar. 28, 1811

Do	steers construction of hand	Charles Reynolds	East Windsor, Ct.	Aug. 21, 1811
Do	-	Daniel Neal	Milford, Del.	Feb. 26, 1812
Do	-	Daniel Nine, jr.	Reading, Pa.	May 4, 1813
Do	-	Benjamin Peck	Philadelphia, Pa.	July 5, 1814
Do	hanging, and placing steps by the side	Horatio G. Spafford	Albany, N. Y.	Nov. 25, 1814
Do	-	John J. Wells	Hartford, Ct.	Jan. 24, 1815
Do	-	Benjamin Hale	Newburyport, Mass.	Oct. 4, 1817
Do	-	John B. Swann	Albany, N. Y.	Sept. 29, 1818
Do	-	George H. Richards	New London, Ct.	July 8, 1821
Do	-	John B. Swann	Albany, N. Y.	July 24, 1823
Do	steam	Lewis Bigelow	Petersham, Mass.	Aug. 29, 1823
Do	-	Bernard J. Malfeasor	Burlington, N. J.	April 6, 1824
Do	-	Edward Clarke	New York	Sept. 9, 1825
Do	-	George Holloway	Baltimore, Md.	Sept. 9, 1825
Do	steam	Thomas Blanchard	Springfield, Mass.	Dec. 28, 1825
Do	calash top	Ezra Slifer	Boonsborough, Md.	Jan. 16, 1826
Do	regulating the speed of descending hills	Wm. and Josiah Jessup	Guildord co., N. C.	June 1, 1827
Bo	-	Theo. Brooks and D. W. Eames	Rutland, N. Y.	Dec. 6, 1827
Do	-	Thomas Knox	Snuggersville, Va.	Mar. 15, 1828
Do	safety, double axle tree	Edward G. Fitch	Blakely, Ala.	Feb. 7, 1829
Do	propelling	Milton F. Colburn	Baltimore, Md.	April 7, 1829
Do	Coaches and other carriages	Fred. Bremler	New York	April 24, 1810
Do	-	Do	Do	Jan. 21, 1812
Do	-	Benjamin Hale	Newburyport, Mass.	Jan. 17, 1818
Do	-	Simeon Draper	Brockfield, Mass.	Aug. 30, 1819
Do	post and other	Richard Ward	Schenectady, N. Y.	June 2, 1825
Do	Cross cramp for four wheel carriages	Simeon Glover	Newtown, Cr.	May 4, 1805
Do	Curtains or blinds, hanging in coaches	Peter Harvey	Philadelphia, Pa.	May 9, 1807
Do	fall top	John Eberts	Do	Sept. 8, 1815
Do	Horses, "danger 'scape," to disengage them from carriages	William Start	Greensborough, Md.	May 3, 1816

LIST OF PATENTS—WHEEL CARRIAGES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Hubs, machine for dividing and boring	James B. Cleveland	Bergen co., N. J.	June 7, 1809
Do carriage or gig, bands	Christian Cornelius	Philadelphia, Pa.	June 18, 1824
Do cast iron	Benjamin Lyman	Manchester, Ct.	Oct. 29, 1825
Do blocks, &c., bushing	T. & D Curtis	Washington, D. C.	Jan. 23, 1826
Do	Garretson Lyon	New York	Dec. 28, 1826
Do cast iron	Benjamin Lyman	Manchester, Ct.	Nov. 6, 1827
Do Herculean carriage	Hercules Thomas	Medway, Mass.	Feb. 8, 1828
Do cast iron	William Dickinson	Batavia, N. Y.	Oct. 11, 1828
Do and axle trees	Phineas Slayton	Lockport, N. Y.	Oct. 27, 1828
Do	Hercules Thomas	Middleborough, Mass.	Sept. 11, 1829
Life preserver	Henry G. De Grandval	Portsmouth, N. H.	Oct. 3, 1817
Lock, wagon	George Divan	Franklin co., Pa.	April 14, 1828
Do	John M. Davidson	Brownsville, Pa.	Dec. 31, 1828
Mail bags	Abm ⁿ L. Pennock & J. Sellers	Philadelphia, Pa.	July 6, 1818
Do	Peter Laporte	Richmond, Va.	May 5, 1824
Moulds for running boxes	Samuel Smith, 2d	Amherst, Mass.	Oct. 17, 1809
Do casting boxes	Leon'd Taezell	Lancaster, Mass.	Mar. 5, 1810
Do	Samuel Smith, 2d	Amherst, Mass.	July 6, 1810
Poles and leading bars	Lucius W. Stockton	Uniontown, Pa.	Sept. 29, 1825
Rollers for springs of pleasure wagons	John Barton, jr.	Providence, R. I.	Sept. 9, 1825
Sleigh runners	Abijah Wilder	New Hampshire	Dec. 14, 1799
Do traverse	Levi Rogers	Berwick, Mass.	Feb. 4, 1807
Do	Aug. Day	Bordentown, N. J.	Jan. 19, 1811
Do shoes, steel plated	Sermon Hunt	Canaan, Ct.	Dec. 30, 1813

LIST OF PATENTS—WHEEL CARRIAGES—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Spring seats for wagons	Schuyler Reynolds	New York	July 17, 1829
Trace and bar, elastic, by connected springs	Benj. Giddins	Baltimore, Md.	Dec. 10, 1808
Stages, mail	Daniel W. Eames	Watertown, N. Y.	May 8, 1823
Velocipede	Wm. K. Clarkson, jr.	New York	June 26, 1819
Do chiro	Gideon Barker	Providence, R. I.	Nov. 1, 1825
Wagon, hand	John Bolton, jr.	New York	Sept. 29, 1804
Do tilting	Ahm. Hobart	Braine, Mass.	Feb. 17, 1807
Do	Sherman, Blair	New Haven, Ct.	June 20, 1823
Wheels, iron	Robert Crane, jr.	Woodbury, Ct.	May 4, 1805
Do reverting	John Coon	Granville, N. Y.	Aug. 6, 1808
Do	Otis Paine	Foxborough, Mass.	Mar. 1, 1811
Wheels Hunt and C.	Melsor Hunt	Hartford, Mass.	June 15, 1813
White	White	Lebanon, N. H.	Sept. 12, 1815
Bracket L. Greenough	Bracket L. Greenough	Litchfield, Ct.	Mar. 20, 1821
Russell Hunt, 2d	Russell Hunt, 2d	Dingman's Ferry, Pa.	June 24, 1822
John Whitaker	John Whitaker	Columbia, S. C.	Mar. 3, 1825
William Cooper	William Cooper	New Haven, Ct.	July 16, 1829
George D. Bridgman	George D. Bridgman		

LIST OF PATENTEES—WHEEL CARRIAGES.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Atchison, William	New York	Boot spring, box, open jack	May 23, 1815
Arnold, Ichabod	Oswegatchie, N. Y.	Sleigh shoes, cast iron	Mar. 12, 1828
Armour, James, Jr.	Baltimore, Md.	Springs for carriages, folding or spiral	June 27, 1808
Beach, Cyrus	Newark, N. J.	Axle trees and boxes	June 26, 1807
Beimler, Fred.	New York	Do machine for greasing	Aug. 22, 1816
Brown, Levi	Berkshire, Mass.	Boxes	May 30, 1806
Broad, Aaron	Salisbury, Ct.	Do for axle trees	June 14, 1809
Batchelor, William	New York	Do and axle trees	May 2, 1816
Bigelow, Lewis	Petersham, Mass.	Carriages, steam	Aug. 29, 1823
Blanchard, Thomas	Springfield, Mass.	Do regulating the speed of	Dec. 28, 1825
Brooks, Theo., and D. W. Eames	Rutland, N. Y.	Do	Dec. 6, 1827
Bremler, Fred.	New York	Coaches and other carriages	April 24, 1810
Do	Do	Do	Jan. 21, 1812
Barton, John, Jr.	Providence, R. I.	Rollers for springs of pleasure wagons	Sept. 9, 1825
Barton, William	New York	Sleighs, sleds, &c., shoeing	Dec. 13, 1820
Birkhead, Levin	Philadelphia, Pa.	Springs, wooden	Dec. 30, 1814
Burnhill, Michael H.	Canterbury, Del.	Do	Nov. 17, 1818
Barker, Gideon	Providence, R. I.	Velocipede, chiro	Nov. 1, 1825
Bolton, John, Jr.	New York	Wagon, hand	Sept. 29, 1804
Blair, Sherman	New Haven, Ct.	Do	June 20, 1823
Bridgman, Geo. D.	Do	Wheels	July 16, 1829
Cook, Lyman	Whitestown, N. Y.	Carriages, four wheel, manual	Mar. 28, 1811
Clarke, Edward	New York	Do steam	Sept. 9, 1825
Colburn, Milton F.	Baltimore, Md.	Do propelling	April 7, 1829

LIST OF PATENTEES—WHEEL CARRIAGES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Cleaveland, James B.	Bergen co., N. J.	Hubs, machine for dividing and boring	June 7, 1809
Cornelius, Christian	Philadelphia, Pa.	Do carriage or gig bands	June 18, 1824
Curtis, T. and D.	Washington, D. C.	Do blocks, &c., bushing	Jan. 23, 1826
Cone, Joshua	Reading, Ct.	Springs	Aug. 26, 1808
Clarke, James	Kent co., Del.	Do wooden	July 31, 1818
Clarkson, Wm. K. jr.	New York	Velocipede	June 26, 1819
Crane, Robert, jr.	Woodbury, Ct.	Wheels, iron	May 4, 1805
Coon, John	Granville, N. Y.	Do	Aug. 6, 1808
Cooper, William	Columbia, S. C.	Do	Mar. 3, 1825
Dow, Phineas	Boston, Mass.	Bodies, Grecian chaise	Aug. 15, 1810
Dunlap, Henry	Georgetown, D. C.	Do carriage	Aug. 27, 1812
Derby, Calvin	Worcester, Mass.	Boxes, casting	Jan. 22, 1825
Dana, Stephen W.	Rutland, Vt.	Carriages	Aug. 30, 1808
Deaper, Simeon	Brookfield, Mass.	Coaches, mail	Aug. 30, 1819
Dickinson, Wm.	Batavia, N. Y.	Hubs, cast iron	Oct. 11, 1828
De Grandval, Henry	Portsmouth, N. H.	Life preserver	Oct. 3, 1817
Divan, George	Franklin co., Pa.	Lock, wagon	April 14, 1828
Davidson, John M.	Brownsville, Pa.	Do do	Dec. 31, 1828
Day, Augustus	Borden town, N. J.	Sleigh	Jan. 19, 1811
Dunlap, Henry	Georgetown, D. C.	Splinter bar and swingle trees	April 23, 1807
Edwards, Wm.	Baltimore, Md.	Boxes with anti-friction rollers	Sept. 11, 1817
Eberts, John	Philadelphia, Pa.	Gig, fall top	Sept. 8, 1815
Eames, Daniel W.	Watertown, N. Y.	Stages, mail	May 8, 1823
Faris, Wm.	Maryland	Carriages, propelling	April 29, 1797
Fitch, Edward G.	Blakely, Ala.	Do double axletree, safety	Feb. 7, 1829

Fisher, Jac.	Kennebec, Me.	Sleigh	Dec. 30, 1820
Gibson, Edward	New York	Carriage bodies, called the standing roof landau	May 10, 1811
Gridley, James	Boston, Mass.	Boxes for carriage wheels	May 23, 1806
Glover, Simeon	Newtown, Ct.	Cross cramp for four wheel carriages	May 4, 1805
Greenwood, James	New Castle, Del.	Springs, wooden	April 28, 1818
Giddins, Benjamin	Baltimore, Md.	Trace and bar, elastic, by connected springs	Dec. 10, 1808
Greenough, Bracket L.	Lebanon, N. H.	Wheels	Sept. 12, 1815
Hunt, Walter	New York	Alarm for coaches	July 30, 1827
Henderson, Jos.	Guildford, Ct.	Carriages, suspending pleasure	Dec. 26, 1808
Hale, Benjamin	Newburyport, Mass.	Do	Oct. 4, 1817
Halloway, George	Baltimore, Md.	Do calash top	Sept. 9, 1825
Hale, Benjamin	Newburyport, Mass.	Coaches	Jan. 17, 1818
Harvey, Peter	Philadelphia, Pa.	Do hanging curtains or blinds in	May 9, 1807
Hunt, Sermon	Canaan, Ct.	Shoes, steel plated sleigh	Dec. 30, 1813
Humphries, Richard & Israel C. Humphries	Cantwell's Bridge, Del.	Springs	April 22, 1814
Hobart, Abm.	Brantree, Mass.	Wagon, tilting	Feb. 17, 1807
Hunt, Melzar and Cottontown White	Hartford, Mass.	Wheels	June 15, 1813
Hunt, Russell, 2d	Litchfield, Ct.	Do tiring	Mar. 20, 1821
Jessop, Wm. & Josiah	Guildford co., N. C.	Carriages	June 1, 1827
Ives, Enoch, & Jerry Hill	New Haven, Ct.	Springs, main	June 3, 1808
Janes, Walter	Ashford, Ct.	Do for wagons	June 6, 1826
Kilhorn, Rob.	Gr. Barrington, Mass.	Axletrees, diminishing friction of	April 12, 1808
Knox, Thos.	Sniggersville, Va.	Carriages	Mar. 15, 1828
King, Wm. & Henry Salisbury	Hartford, Ct.	Springs for carriages	Aug. 29, 1805
Knowles, Hazard	Colchester, Ct.	Do for wagons	Nov. 4, 1825
Laporte, Peter	Augusta co., Va.	Boot for stages	July 28, 1828
Lyman, Benjamin	Manchester, Ct.	Hubs, cast iron	Oct. 29, 1825

LIST OF PATENTEES—WHEEL CARRIAGES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Lyon, Garretson	New York	Hubs	Dec. 28, 1826
Lyman, Benjamin	Manchester, Ct.	Do cast iron	Nov. 6, 1827
Laporte, Peter	Richmond, Va.	Mail bags	May 5, 1824
Mussey, Thomas	New London, Ct.	Boxes, self fastening	June 11, 1827
Malfeerson, Bernard J.	Burlington, N. J.	Carriages	April 6, 1824
Mix, Jona.	New Haven, Ct.	Springs, main	April 18, 1807
Do	Do	Do	June 17, 1808
Do	Do	Do thorough brace	June 30, 1808
Nicholson, John	Herkimer, N. Y.	Boxes for wheels	April 28, 1810
Neal, Daniel	Milford, Del.	Carriages, construction of	Feb. 26, 1812
Nine, Daniel	Reading, Pa.	Do hand	May 4, 1813
Nichols, Jona.	Providence, R. I.	Spring seat for carriages	Oct. 2, 1822
Phillips, Daniel W.	Middlebury	Axle	April 23, 1828
William Maker	Covington, N. Y.	Carriages	July 5, 1814
Peck, Benjamin	Philadelphia, Pa.		
Pennock, Abm. L., & J. Sellers	Richmond, Va.	Mail bags	July 6, 1818
Pettee, Seneca	Salisbury, Ct.	Sleigh shoes	Oct. 1, 1822
Parsons, Lemuel H.	Stockbridge, Mass.	Springs	June 23, 1824
Paine, Otis	Foxborough, Mass.	Wheels, reverting	Mar. 1, 1811
Reynolds, George N.	Charleston, S. C.	Axle, moveable	April 29, 1819
Reeder, Jesse	Lebanon, O.	Bodies, carriage	Mar. 4, 1828
Ross, William	New York	Carriages	Jan. 14, 1809
Reynolds, Charles	E., Windsor, Ct.	Do steam	Aug. 21, 1811
Richards, George H.	New London, Ct.	Do travelling	July 8, 1821

Rogers, Levi	Berwick, Mass.	Sleigh, traverse	Feb. 4, 1807
Robinson, Wm.	Wilmington, Del.	Springs, wooden	Nov. 27, 1810
Reynolds, George N.	Charleston, S. C.	Do	April 20, 1819
Reynolds, Schuyler	New York	Do	July 17, 1829
Smith, Jos.	Lancaster, Pa.	Bodies, carriage and stage	April 29, 1815
Scott, Thomas	London, Pa.	Do : raising and lowering wagon	Mar. 3, 1829
Shotwell, William	New Jersey	Boxes, for wood or iron to turn in	Feb. 2, 1800
Staples, J.	New York	Carriages, propelling	April 25, 1794
Strobel, John C.	Pennsylvania	Do : constructing	Sept. 19, 1803
Spafford, Horatio G.	Albany, N. Y.	Do	Nov. 25, 1814
Swain, John B.	Do	Do	Sept. 29, 1818
Do	Boorishoro ² , Md.	Do : retarding, descending hills	July 24, 1823
Slifer, Ezra	Greensboro ² , Md.	Horses, "danger scape," to disengage them from carriages	Jan. 16, 1826
Start, Wm.	Lockport, N. Y.	Hubs and axletrees	May 3, 1816
Slayton, Phineas	Amherst, Mass.	Moulds for running boxes	Oct. 27, 1828
Smith, Samuel, 2d	Do	Moulds for casting boxes	Oct. 17, 1809
Do	Uniontown, Pa.	Poles, and leading bars	July 6, 1810
Stockton, Lucius W.	Downingtown, Pa.	Springs, horizontal wooden	Sept. 29, 1825
Somner, Leonard	Pawlet, Vt.	Do : traverse	July 22, 1811
Stoddard, Nathan A.	Ward, Mass.	Brake, wagon, self regulating	April 2, 1825
Turner, Robert	Medway, Mass.	Hubs, Herculean carriage	Aug. 29, 1828
Thomas, Hercules	Middleborough, Mass.	Do	Feb. 8, 1828
Do	Lancaster, Mass.	Moulds for casting boxes	Sept. 11, 1829
Tazewell, Leond.	Manlius, N. Y.	Sleigh shoes, cast iron, on wrought iron rods	Mar. 5, 1810
Tousley, Sylvanus	Sangerfield, N. Y.	Do : do	Feb. 7, 1815
Trask, Edward	Troy, N. Y.	Springs, wooden	Oct. 6, 1827
Thrall, Luke H.	New Jersey	Boxes for carriages	Nov. 10, 1813
Whitlock, Thos. B.	Chambersburg, Pa.	Boxes, cast iron	Feb. 23, 1802
Willse, Jer.	Hartford, Ct.	Carriages, hanging and placing steps by the side	Dec. 28, 1825
Wells, John J.	Schenectady, N. Y.	Coaches, post and other	Jan. 24, 1815
Ward, Rd.			June 2, 1825

LIST OF PATENTEES—WHEEL CARRIAGES—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Wilder, Abijah	New Hampshire	Sleigh runners	Dec. 14, 1799
Whitaker, John	Dingman's Ferry, Pa.	Wheels	June 24, 1822

LIST OF PATENTS—HYDRAULICS.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Aqueduct of water proof lime	John M. Benham	Bridgewater, N. Y.	Aug. 29, 1827
Boxes, pump	John Stickney	Baltimore, Md.	May 1, 1804
Do metallic single valve	Isaac Scott	Boston, Mass.	May 2, 1817
Do elliptical valve	Jas. Baker	Charlestown, Mass.	May 9, 1817
Do	Israel P. Williams & S. G. Rea	Salem, Mass.	Dec. 9, 1828
Bucket, well, emptying	Elijah Willard	Eggenmont, Mass.	June 15, 1826
Do pump	David Coon	Mendon, N. Y.	Nov. 28, 1829
Cock, stop	Peter Walker	New York	April 10, 1800
Do water	George Youle	Do	Aug. 25, 1803
Do or lock for the passage of fluids	Joshua Witherle	Boston, Mass.	Jan. 16, 1811
Do stop	Daniel Sharman	Warren, N. Y.	July 5, 1814
Do block tin	John Morris	Hartford, Ct.	Mar. 1, 1815
Do	Do	Do	Mar. 7, 1816

Do water	-	Baltimore, Md.	Oct. 4, 1820
Do valve	-	Philadelphia, Pa.	Nov. 8, 1820
Do	-	Do	June 29, 1821
Do for drawing liquor	-	New York	Sept. 24, 1821
Do metallic screw	-	Baltimore, Md.	April 23, 1822
Do stock	-	New Haven, Ct.	May 15, 1822
Do piston and valve	-	Philadelphia, Pa.	May 6, 1823
Do stop	-	New York	July 12, 1823
Do	-	Amherst, Mass.	Dec. 17, 1823
Do valve for hydrants	-	Philadelphia, Pa.	May 15, 1827
Conduit, clay	-	Hartford, Ct.	Jan. 15, 1809
Engine, fire	-	Pennsylyania	April 13, 1797
Do screw, water	-	Rhode Island	Mar. 21, 1798
Do water	-	New Hampshire	April 24, 1799
Do fire	-	Rhode Island	Aug. 30, 1799
Do hydraulic	-	Pennsylyania	Feb. 12, 1800
Do do	-	Massachusetts	Mar. 24, 1801
Do fire	-	New York	Dec. 6, 1803
Do hydraulic	-	Keetztown, Pa.	May 3, 1805
Do fire	-	New York	May 20, 1807
Do crank, for raising and throwing water	-	Montague, Mass.	Nov. 21, 1810
Do do improvement on Clapp's	-	Greenfield, Mass.	Nov. 16, 1811
Do hydro pneumatic	-	Newark, N. J.	Jan. 6, 1812
Do fire	-	Walton, N. Y.	Aug. 6, 1812
Do	-	Allen Pollock and	
		Jacob Perkins	Aug. 6, 1812
		John Achman	Dec. 30, 1812
		Jac. Perkins	Mar. 23, 1813
		Stephen H. Long &	
		Geo. F. A. Hause	
		Germantown, Pa.	Sept. 3, 1813

LIST OF PATENTS—HYDRAULICS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs,	RESIDENCE.	WHEN ISSUED.
Engine, water	Joel M. Dupuy	Woodford, Ky.	April 13, 1814
Do fire	John Richardson, jr.	Shrewsbury, Mass.	July 24, 1818
Do fire	Jac. Idier	Philadelphia, Pa.	July 31, 1819
Do fire, domestic	Wm. Wadsworth	Hartford, Ct.	Mar. 16, 1820
Do	Eb. Bryant	New London, Ct.	Mar. 28, 1820
Do	S. Lockwood and W.	Little Falls, N. Y.	April 16, 1822
Do	Loveland	Saratoga, N. Y.	April 27, 1822
Do	Eb. Higgins	Falley & Rds., Mass.	June 20, 1823
Do	E. Williams and J.	New York	Nov. 1, 1823
Do	Collins	Belchertown, Mass.	Mar. 11, 1824
Do	Richard Wilcox	Lebanon, Pa.	Sept. 23, 1826
Do	Luther Holland	Canaan, Ct.	April 12, 1828
Do	Geo. Shalk and Wm.	Windsor, Vt.	April 22, 1828
Do	Tintoff	Bristol, Ct.	April 14, 1808
Do	Ezekiel Daboll	New York	May 13, 1812
Do	Asahel Hubbard	Oneida co., N. Y.	Oct. 4, 1817
Do	Ira Ives	Philadelphia, Pa.	June 4, 1821
Do	William Jones	-	-
Do	Jer. Brainard	-	-
Do	Jonathan Bliss	-	-
Do	Danl. McMullin and	-	-
Do	Thos. M. Corby	-	-
Do	Solomon McCombs	-	-
Do	Jos. Smith and Benj.	-	-
Do	D. Galtin	-	-
Do	do	and wine, &c.	Nov. 6, 1804
Do	do	do	June 24, 1806
Baltimore, Md.			

<i>Do</i>	<i>pot</i>		Philadelphia, Pa.	July 1, 1807
<i>Do</i>	<i>machine</i>		New York	Feb. 10, 1816
<i>Do</i>	<i>water</i>		Norfolk, Va.	Feb. 22, 1828
<i>Do</i>	<i>do</i>		Philadelphia, Pa.	Aug. 27, 1828
<i>Do</i>	<i>do</i>		New York	July 7, 1829
<i>Fire</i> , mode of extinguishing and preventing its progress			New York	Mar. 31, 1794
<i>Fenders</i> , for preventing the spread of fires			Rochester, Mass.	Feb. 27, 1821
<i>Fluids</i> , retention and discharge of			Westmoreland, N. Y.	Nov. 10, 1827
<i>Fount</i> , liquor			New York	June 25, 1821
<i>Funnels</i>			Philadelphia, Pa.	July 13, 1808
<i>Do</i>	with vents		West Stockbridge, Ms.	April 9, 1810
<i>Hose</i> made of canvas			New York	Mar. 28, 1792
<i>Do</i>	or leather tubes		Philadelphia, Pa.	July 6, 1818
<i>Do</i>	<i>fire engine</i>		Boston, Mass.	May 30, 1821
	Hydrant for drawing water from aqueducts		Schenectady, N. Y.	June 22, 1808
<i>Do</i>			Philadelphia, Pa.	Dec. 19, 1823
<i>Do</i>	<i>fountain</i>		<i>Do</i>	Dec. 13, 1823
	Hydraulic machine for currents		<i>Do</i>	Aug. 1, 1828
<i>Do</i>	<i>do</i>		New York	Dec. 31, 1793
<i>Do</i>	<i>do</i>		Vermont	Oct. 29, 1794
<i>Do</i>	<i>do</i>		<i>Do</i>	Feb. 20, 1801
<i>Do</i>	<i>do</i>		South Carolina	Oct. 14, 1802
<i>Do</i>	<i>do</i>		Brookfield, Ct.	Mar. 27, 1805
<i>Do</i>	<i>do</i>		Wilkesbarre, Pa.	Aug. 26, 1808
<i>Do</i>	<i>do</i>		Philadelphia, Pa.	May 26, 1812
<i>Do</i>	<i>do</i>		Georgetown, D. C.	Aug. 7, 1817
<i>Do</i>	<i>do</i>		Lynganore, Md.	Nov. 18, 1818
<i>Do</i>	<i>do</i>		Northumberländco, Pa.	April 23, 1819
<i>Do</i>	balance lever		Springfield, N. Y.	July 18, 1820
<i>Do</i>	machine		Bedford, Pa.	May 29, 1824

LIST OF PATENTS—HYDRAULICS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Hydraulic elevator	David Corey	New York	Aug. 31, 1827
Do machine	Jac. Roup	- Kenhawa, Va.	Oct. 6, 1827
Do elevator	- James McCreery.	- Nobletown, Pa.	Jan. 5, 1828
Do power	Z. A. Parker	- Conhocton co., Ohio	Oct. 19, 1829
Hydrometer	Elijah Southworth	- New York	Feb. 28, 1821
Do	Joseph C. Tucker & E. Dwelle	Boston, Mass.	Dec. 23, 1822
Hydrostatic paradox, applied to move machinery	Cadwallader D. Colden	New York	May 19, 1815
Do do pressure of fluids	Do	Do	June 2, 1815
Do æerostatic machinery	E. C. Genet	Albany, N. Y.	Oct. 31, 1825
Ice in conduit pipes	Henry Cunningham	Johnstown, N. Y.	June 29, 1825
Ladder, conflagration	Bennet Lies	New York	June 20, 1815
Do fire	Samuel Lehman	Philadelphia, Pa.	Aug. 9, 1826
Liquors, mode of elevating	John A. Smith	New London, Ct.	Aug. 7, 1826
Do drawing and corking sparkling	Keene A. Bille	New York	Nov. 8, 1828
Pipes, leaden, securing from frost	David Lownes	Pennsylvania	July 21, 1803
Do conduit, clay	Samuel Bartlett	Hartford, Ct.	Oct. 1, 1805
Do leaden	Rob. Ramsey	Hanover, N. H.	June 24, 1808
Do conduit, to prevent waste of water	Alpheus Todd	Oxford, N. H.	April 18, 1814
Do	Elisha Putnam	Albany, N. Y.	Dec. 31, 1816
Do	Do	Do	Nov. 18, 1818
Do aqueduct	J. Clark & L. Crowell	Westminster, Va.	Dec. 18, 1818
Do clay	Thos. B. Robbins	Stockbridge, Mass.	Mar. 19, 1821
Do tubes, &c.	John Bower	E. Bethlehem, Pa.	Dec. 1, 1826
	Joseph Putnam	Salem, Mass.	Jan. 17, 1827

Theophilus Packard -	Sherburn, Mass.	April 29, 1828
Thos. Wickersham -	Newbury, Pa.	May 13, 1828
Peter A. Browne -	Philadelphia, Pa.	Oct. 9, 1816
William W. Vanloan	Catskill, N. Y.	Feb. 2, 1822
Mark J. Brunel	London, England	Mar. 30, 1827
Elisha Rigg	Pennsylvania	July 29, 1794
Thomas Bourke	Do	Nov. 16, 1796
Jonathan Hunt	New York	June 7, 1798
Mark Reeve	Pennsylvania	Dec. 14, 1798
Apollos Kinsley	Connecticut	Oct. 28, 1799
Sol. Thayer	Massachusetts	June 9, 1801
John Eveleth	Rhode Island	June 13, 1801
Jac. Perkins	Massachusetts	July 9, 1801
John Clark	New York	May 19, 1803
Enoch Alden	Massachusetts	Nov. 15, 1803
Daniel M. Miller	New York	Mar. 5, 1804
Benjamin Folger	Hudson, N. Y.	July 7, 1804
Aaron Taylor	Boston, Mass.	Oct. 4, 1805
William Finn	Baltimore, Md.	Feb. 13, 1806
Charles Colver	Champlain	April 1, 1806
Daniel Watson	Plymouth, Mass.	Mar. 4, 1808
Eleazer Cady, jr.	Chatham, N. Y.	Mar. 9, 1808
William Rhodes	New York	May 16, 1808
Pliny Upham	Brookfield, Mass.	Jan. 6, 1809
Abm. Horn	Easton, Pa.	Jan. 6, 1809
William Shultz	Baltimore, Md.	June 24, 1809
Jac. Canfield	Morristown, N. J.	June 28, 1809
James Josslyn	Hanover, Mass.	July 25, 1809
Atkinson Farra	Montgomery co., Pa.	Dec. 5, 1809
Lewis Schrack	Norristown, Pa.	Dec. 8, 1809
Luther Holland	Belchertown, Mass.	Mar. 28, 1810

- leaden, testing
Do clay
Piston for pumps
Pole, life, and fire engine assistant
Power, obtaining by certain fluids
Pump
Do
Do oblique
Do and water pipe
Do universal
Do impellent
Do forcing
Do
Do dry bellows
Do water
Do forcing
Do spring
Do double forcing
Do common suction
Do double forcing
Do pneumatic forcing
Do mechanical
Do balance wheel
Do double bored pendulum
Do balance wheel horizontal

LIST OF PATENTS—HYDRAULICS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Pump chain, Chinese	-	-	-
Do horizontal, double forcing, for fire engines	-	Northumberland, Pa.	Aug. 2, 1810
Do double forcing	-	Palmer, Mass.	Nov. 6, 1810
Do	-	Franklin, N. Y.	Feb. 19, 1811
Do do	-	Dutchess co., N. Y.	Feb. 20, 1811
Do reverse impelling	-	Otsego, N. Y.	Mar. 7, 1811
Do	-	Brookfield, Mass.	Mar. 9, 1811
Do sea motion	-	New York	Aug. 19, 1811
Do horizontal	-	Belcherstown, Mass.	Sept. 10, 1811
Do	-	Whitestown, N. Y.	Jan. 6, 1812
Do suction and fire engine	-	Philadelphia, Pa.	April 11, 1812
Do cog and pendulum	-	New York	Aug. 6, 1812
Do	-	Newburyport, Mass.	Mar. 23, 1813
Do	-	Genoa, N. Y.	Aug. 6, 1813
Do double, air and water	-	Philadelphia, Pa.	Mar. 27, 1815
Do elliptic valve	-	Scipio, N. Y.	June 20, 1816
Do	-	Charlestown, Mass.	Jan. 16, 1817
Do	-	New York	Feb. 8, 1817
Do	-	Washington, D. C.	April 29, 1817
Do	-	Boston, Mass.	May 3, 1817
Do	-	Do	May 6, 1817
Do and pump boxes	-	Newport, R. I.	Aug. 1, 1817
Do folding paddle	-	Portsmouth, N. H.	Sept. 1, 1817
Do	-	Boston, Mass.	Oct. 10, 1817
Do	-	New York	Nov. 1, 1817

Do	double forcing	-	New York	-	Feb. 19, 1818
Do	suction	-	Easton, Pa.	-	Mar. 16, 1818
Do	wing valve	-	Urbana, Ohio	-	May 25, 1818
Do	wing valve	-	New York	-	June 12, 1818
Do	wing valve	-	Boston, Mass.	-	July 11, 1818
Do	wing valve	-	Norfolk, Va.	-	Feb. 20, 1819
Do	wing valve	-	New Haven, Ct.	-	April 26, 1819
Do	wing valve	-	Milton, Pa.	-	Nov. 11, 1819
Do	double forcing	-	Springfield, N. Y.	-	Dec. 31, 1819
Do	wind power,	-	Kent, Ct.	-	Mar. 8, 1820
Do	double forcing	-	Lena Gillett, adm'x.	-	
Do	suction	-	of Sam'l. Gillett	-	
Do	forcing	-	Levi Gray	-	
Do	do and suction	-	John Pa'dleford	-	
Do	suction	-	Joshua Clark	-	
Do	forcing	-	Daniel Johnson	-	
Do	for beer and cider	-	Samuel Currey	-	
Do	for beer and cider	-	John Babcock, jr.	-	
Do	for beer and cider	-	Richard Sealy	-	
Do	for beer and cider	-	Sylvanus Russell	-	
Do	for beer and cider	-	Theodorick Brooks	-	
Do	for beer and cider	-	J. Robinson and Luke	-	
Do	tide, basin	-	Shaw	-	
Do	applying power to common	-	George M. Seldon	-	
Do	quadruple forcing	-	Noah Underwood	-	
Do	for beer, soda water, &c.	-	Ira Ferris	-	
Do	water for machinery	-	Levi Pitkin	-	
Pumping	water for machinery	-	Russell Wileman	-	
Do	water for machinery	-	John W. Hillias	-	
Royal Yeamans		-	Royal Yeamans	-	
Liscomb Knapp		-	Liscomb Knapp	-	

LIST OF PATENTS—HYDRAULICS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Ram, hydraulic	J. Curneau and S. S. Hallet	New York	Aug. 3, 1809
Spear for pumps, horizontal circular valve	Eben. Leman	Boston, Mass.	May 23, 1817
Tubes, clay, for aqueducts	James Ramsey	Burke, Vt.	April 4, 1810
Valve, relieving	Wm. Lanphier	Alexandria, D. C.	Sept. 2, 1826
Water, raising by wind	Samuel Morey	New Hampshire	April 11, 1795
Do do from fountains	John Manning	Do	April 10, 1798
Do do	Mark J. Brunell	New York	April 27, 1798
Do do	Jos. Humpfrey	Do	Jan. 10, 1799
Do do	William Faris	Maryland	May 17, 1799
Do do	Aaron Brookfield	New Jersey	Oct. 24, 1800
Do do	William Palmer	New York	Aug. 25, 1801
Do do	Benjamin Cooley	Massachusetts	Feb. 1, 1803
Do do	Wm. Harrington	Paris, Ky.	Aug. 28, 1804
Do do	Serafim Bellig	Baltimore, Md.	Nov. 7, 1805
Do do	John Herrick, Jr.	Albany, N. Y.	Feb. 1, 1810
Do do	Samuel Currey	Williamson co., Ten.	April 24, 1810
Do do	Joseph Ruggles	New Milford, Ct.	June 6, 1811
Do do	George Patterson	Philadelphia, Pa.	Feb. 6, 1813
Do do	Jacob Hartman	Lampeter, Pa.	Mar. 31, 1814
Do do	Samuel Griffith	Rensselaer co., N. Y.	Feb. 1, 1817
Do do	William Baley	Nelson co., Ken.	Feb. 4, 1817
Do do	Samuel Finlay	B.	
Morse	Morse, and S. E.	Charlestown, Mass.	Oct. 3, 1817

Do	raising by steam	-	James Ambler	Berlin, N. Y.	-	May 29, 1819
Do	Wm. Bushnell and J. Altoffer	-	Wm. Bushnell and J. Altoffer	Harrisburg, Va.	-	Aug. 30, 1821
Do	N. N. Destreham	-	N. N. Destreham	Charles Parish, La.	-	Dec. 13, 1821
Do	Social Rolph	-	Social Rolph	Albany, N. Y.	-	Nov. 16, 1822
Do	L. H. Mosby	-	L. H. Mosby	Powhatan co., Va.	-	Feb. 15, 1823
Do	William Dabney	-	William Dabney	Richmond, Va.	-	Nov. 20, 1824
Do	Scott Fickett	-	Scott Fickett	New York	-	June 11, 1825
Do	Elijah Willard	-	Elijah Willard	Egremont, Mass.	-	Nov. 2, 1825
Do	John Winter	-	John Winter	Brutus, N. Y.	-	Nov. 15, 1825
Do	Jer. Dexter	-	Jer. Dexter	Salisbury, Ct.	-	Jan. 27, 1826
Do	Liscomb Knapp	-	Liscomb Knapp	Brighton, N. Y.	-	May 22, 1826
Do	Elijah Willard	-	Elijah Willard	Egremont, Mass.	-	Oct. 23, 1826
Do	Isaac Willbur	-	Isaac Willbur	Madison, N. Y.	-	Dec. 28, 1826
Do	George Fleming	-	George Fleming	Goochland, Va.	-	April 24, 1827
Do	Henry Miller	-	Henry Miller	Allentown, Pa.	-	July 28, 1827
Do	Wm. Thornton	-	Wm. Thornton	Washington, D. C.	-	July 31, 1827
Do	Joseph S. Fox	-	Joseph S. Fox	Otto, N. Y.	-	April 5, 1828
Do	Samuel Smith	-	Samuel Smith	Mendon, N. Y.	-	Aug. 20, 1828
Do	Samuel L. Holmes	-	Samuel L. Holmes	West Chester, N. Y.	-	Dec. 8, 1828
Do	Samuel Smith	-	Samuel Smith	Mendon, N. Y.	-	Mar. 17, 1829
Do	A. E. Lazell and Dan. Bloodgood	-	A. E. Lazell and Dan. Bloodgood	Poughkeepsie, N. Y.	-	July 27, 1829
Do	Samuel McCune	-	Samuel McCune	Wilmington, O.	-	Aug. 25, 1829

LIST OF PATENTEES—HYDRAULICS.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Achman, John	Washington, D. C.	Engine, fire	Dec. 30, 1812
Apple, Philip	Philadelphia, Pa.	Funnels	July 13, 1808
Avellhe, John B.	South Carolina	Hydraulic machine	Oct. 14, 1802
Alden, Enoch	Massachusetts	Pump, dry bellows	Nov. 15, 1803
Ambler, James	Berlin, N. Y.	Water by steam, raising	May 29, 1819
Benham, John M.	Bridgewater, N. Y.	Aqueduct for water proof lime	Aug. 29, 1827
Baker, James	Charlestown, Mass.	Pump boxes, elliptical valve	May 9, 1817
Bliss, Jona.	New York	Cock for drawing liquor	Sept. 24, 1821
Bartlett, Samuel	Hartford, Ct.	Conduit clay	Jan. 15, 1809
Bryant, Eb.	New London, Ct.	Engine, fire	Mar. 28, 1820
Brainard, Jer.	Oneida co., N. Y.	Faucets, gate	Oct. 4, 1817
Bliss, Jona.	Philadelphia, Pa.	Do and spiggot	June 4, 1821
Boyd, James	Boston, Mass.	Hose, fire engine	May 30, 1821
Burt, David	Schenectady, N. Y.	Hydrant for drawing water from aqueducts	June 22, 1808
Barker, William	Wilkesbarre, Pa.	Hydraulic machine	Aug. 26, 1808
Black, Jer.	Northumberland co., Pa.	Do	April 23, 1819
Bille, Keene A.	New York	Liquors, drawing and corking sparkling	Nov. 8, 1828
Bartlett, Samuel	Hartford, Ct.	Pipes, conduit clay	Oct. 1, 1805
Bower, John	E. Bethlehem, Pa.	Do clay	Dec. 1, 1826
Browne, Peter A.	Philadelphia, Pa.	Piston for pumps	Oct. 9, 1816
Brunel, Mark J.	London, England	Power by certain fluids, obtaining	Mar. 30, 1827
Bourke, Thomas	Pennsylvania	Pump	Nov. 16, 1796
Black, Jer.	Northumberland, Pa.	Chinese chain	Aug. 2, 1810
Beach, William	Franklin, N. Y.	Do double foreing	Feb. 19, 1811
Baker, James	Charlestown, Mass.	Do elliptic valve	Jan. 16, 1817

Barron, James	Norfolk, Va.	Feb. 20, 1819
Baker, William	Springfield, N. Y.	Do double forcing
Bronson, Heman	Kent, Ct.	Do wind power
Babcock, John J.	Edmeston, N. Y.	Do
Brooks, Theodorick	Rutland, N. Y.	Do
Brunell, Mark J.	New York	Water, raising
Brookfield, Aaron	New Jersey	Do do for mills
Billing, Seraphim	Baltimore, Md.	Do do
Baley, William	Nelson co., Ky.	Do do by steam
Bushnell, William, & J. Altoffer	Harrisburg, Va.	Do
Coon, David	Mendon, N. Y.	Bucket, pump
Clapp, Jos.	Montague, Mass.	Engine for raising and throwing water, crank
Do	Greenfield, Mass.	Do improvement on Clapp's crank
Crosbie, Richard	Newark, N. J.	Do hydro-pneumatic
Clark, David	West Stockbridge, Ms.	Funnels with vents
Clarke, John	New York	Hydraulic machine for currents
Connor, James O.	Bedford, Pa.	Do do
Corey, David	New York	Do elevator
Chuley, John, & Benjamin Stancliffe	Philadelphia, Pa.	Cock valve
Colden, Cadwallader D.	New York	Hydrostatic paradox, applied to move machinery
Do	Do	do pressure of fluids
Cunningham, Hy.	Johnstown, N. Y.	Ice in conduit pipes
Clark, Joshua, and L. Crowell	Westminster, Va.	Conduit pipes
Clark, John	New York	Pump
Colver, Charles	Champlain	Do double forcing
Cady, Eleazer, Jr.	Chatham, N. Y.	Do do
Canfield, Jac.	Morristown, N. J.	Do
Christman, Daniel W.	New York	Do
		Aug. 30, 1821
		Nov. 28, 1829
		Nov. 21, 1810
		Nov. 16, 1811
		Jan. 6, 1812
		April 9, 1810
		Dec. 31, 1793
		May 29, 1824
		Aug. 31, 1827
		Nov. 8, 1820
		May 19, 1815
		June 2, 1815
		June 29, 1825
		Dec. 18, 1818
		May 19, 1803
		April 1, 1806
		Mar. 9, 1808
		June 28, 1809
		Feb. 8, 1817

LIST OF PATENTEES—HYDRAULICS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Clark, Joshua	Westminster, Vt.	Pump, forcing and suction	Sept. 11, 1823
Currey, Samuel	Williamson, Tenn.	Do do	Jan. 3, 1825
Cerneau, J., and S. S.			
Hallet	New York	Ram, hydraulic	Aug. 3, 1809
Coley, Benjamin	Massachusetts	Water, raising	Feb. 1, 1803
Currey, Samuel	Williamson co., Tenn.	Do do	April 24, 1810
Dickinson, Eli	Amherst, Mass.	Cock	Dec. 17, 1823
Dupuy, Joel M.	Woodford, Ky.	Engine, water	April 13, 1814
Daboll, Ezekiel	Canaan, Ct.	Engine, fire	April 12, 1828
Du Common, Jos.	New York	Filtering machine	Feb. 10, 1816
Douglass, John	Do	Fount, liquor	June 25, 1821
Darmand, Charles	Georgetown, D. C.	Hydraulic machine	Aug. 7, 1817
Dearborn, John M.	Boston, Mass.	Pump	May 3, 1817
Destrecham, N. N.	Charles Parish, La.	Water, raising	Dec. 13, 1821
Dabney, William	Richmond, Va.	Do do	Nov. 20, 1824
Dexter, Jer.	Salisbury, Ct.	Do do from wells	Jan. 27, 1826
Ewing, James	Philadelphia, Pa.	Hydrant	Dec. 19, 1823
Eveleth, John	Rhode Island	Pump, forcing	June 15, 1801
Evans, Jona.	Whitestown, N. Y.	Do	Jan. 6, 1812
Edwards, John	Urbana, O.	suction	May 25, 1818
Penn, Gaines	New York	Cock, stop	July 12, 1823
Freytag, Michael	Philadelphia, Pa.	Pot, filtering	July 1, 1807
Fisk, Daniel	Springfield, N. Y.	Hydraulic balance lever	July 18, 1820
Folger, Benjamin	Hudson, N. Y.	Pump, water	July 7, 1804
Finn, William	Baltimore, Md.	Do spring	Feb. 13, 1806

Farr, Atkinson	Montgomery co., Pa.	Dec. 5, 1809
Farris, Thomas	Dutchess co., N. Y.	Feb. 20, 1811
Francis, William	Boston, Mass.	July 11, 1818
Ferris, Ira	Ellicott, N. Y.	Aug. 12, 1828
Faris, William	Maryland	May 17, 1799
Finlay, Sam., B. Morse & S. E. Morse	Charlestown, Mass.	Oct. 3, 1817
Fickett, Scott	New York	June 11, 1825
Fleming, George	Goochland, Va.	April 24, 1827
Fox, Jos. S.	Otto, N. Y.	April 5, 1828
Garey, Jer.	Baltimore, Md.	April 23, 1822
Green, Samuel	New York	Mar. 28, 1792
Gibson, Thomas	Philadelphia, Pa.	Dec. 13, 1823
Gonley, Lewis	Do	Aug. 1, 1828
Genet, E. C.	Albany, N. Y.	Oct. 31, 1825
Gray, Levi	Olsego, N. Y.	Mar. 7, 1811
Gray, Robert	Milton, Pa.	Nov. 11, 1819
Gillett, Lena, admx. of Sam'l. Gillett	Windsor, Ct.	April 6, 1820
Gray, Levi	Springfield, N. Y.	May 9, 1820
Griffith, Samuel	Rensselaer co., N. Y.	Feb. 1, 1817
Hubball, Eb.	Baltimore, Md.	Oct. 4, 1820
Hamlin, Samuel E.	Rhode Island	Aug. 30, 1799
Hathaway, Isaac	Walton, N. Y.	Aug. 6, 1812
Higgins, Eb.	Saratoga, N. Y.	April 27, 1822
Holland, Luther	Belchertown, Mass.	Mar. 11, 1824
Hubbard, Asahel	Windsor, Vt.	April 22, 1828
Hall, Christopher	Norfolk, Va.	Feb. 22, 1828
Hathaway, Joshua	Vermont	Oct. 29, 1794
Horn, Abraham	Easton, Pa.	Jan. 6, 1809
Holland, Luther	Belchertown, Mass.	Mar. 28, 1810

LIST OF PATENTEES—HYDRAULICS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Holland, Luther	Belcherstown, Mass.	Pump, horizontal	-	Sept. 10, 1811
Hille, Jno. C.	Newport, R. I.	Do and pump boxes	-	Aug. 1, 1817
Hamson, Francis	Easton, Pa.	Do double forcing	-	Mar. 16, 1818
Hendrick, William	New York	Do	-	June 12, 1818
Hilliias, John W.	Baltimore, Md.	Do	-	Sept. 16, 1829
Humbley, Joseph	New York	Water, raising	-	Jan. 10, 1799
Harrington, Wm.	Paris, Ky.	Do do	-	Aug. 28, 1804
Herrick, John, jr.	Albany, N. Y.	Do elevator	-	Feb. 1, 1810
Hartman, Jac.	Lampeter, Pa.	Do raising	-	Mar. 31, 1814
Holmes, Samuel L.	West Chester, N. Y.	Do power, increasing by atmospheric pressure	-	Dec. 8, 1828
Hunt, Jonathan	New York	Pump, oblique	-	June 7, 1798
Idler, Jac.	Philadelphia, Pa.	Engine	-	July 31, 1819
Ives, Ira	Bristol, Ct.	Faucets for drawing liquors	-	April 14, 1808
Jones, William	New York	Do plugged	-	May 13, 1812
Janes, Joseph	Lynganore, Md.	Hydraulic machine	-	Nov. 18, 1818
Josslyn, James	Hanover, Mass.	Pump, balance wheel	-	July 25, 1806
Jennings, Isaiah	Philadelphia, Pa.	Do suction, and fire engine	-	April 11, 1812
Johnson, Daniel	Boston, Mass.	Do do	-	April 21, 1824
Kensey, Jesse	Pennsylvania	Engine, fire	-	April 13, 1797
Kinsley, Apollo	Connecticut	Pump, universal	-	Oct. 28, 1799
Knapp, Liscomb	Brighton, N. Y.	Pumping water for machinery	-	May 22, 1826
Do	Do	Water for domestic purposes, raising	-	May 22, 1826
Lacey, John	Philadelphia, Pa.	Cock, piston and valve	-	May 6, 1823
Lyon, Patrick	Pennsylvania	Engine, hydraulic	-	Feb. 12, 1800
Lippart, Frederick	Keetztown, Pa.	Do	-	May 3, 1805

Long, Stephen H., & Geo. F. A. Hauts -	Germantown, Pa.	Sept. 3, 1813
Lockwood, S., and W. Loveland -	Little Falls, N. Y.	Do hydrostatic and steam
Langdon, Barnabas -	Vermont -	Do fire
Lies, Bennett -	New York -	Hydraulic machine
Lehman, Samuel -	Philadelphia, Pa.	Ladder, conflagration
Lownes, David -	Pennsylvania -	Do fire
Lies, Bennett -	New York -	Pipes from frost, securing leaden
Do -	Do -	Pump, sea motion
Leighton, Luke M. -	Portsmouth, N. H.	Do cog and pendulum
Leman, Eben. -	Boston, Mass.	Do
Lanphier, William -	Alexandria, D. C.	Pumps, horizontal circular valve spear for
Lazell, A. E., & Danl. Bloodgood -	Poughkeepsie, N. Y.	Valve, relieving
Morris, John -	Hartford, Ct.	Water, raising
Do -	Do -	Cock, stop
Do -	New Haven, Ct.	Do block tin
Morey, Samuel -	New Hampshire -	Do stock
McMullin, Danl., and Thos. McCorby -	Baltimore, Md.	Engine, water
McCombs, Sol'n, Jos. Smith, and Benj. D. Galtin -	Nobletown, Pa.	Filtering water
McGreery, James -	New York -	Do do and wine, &c.
Miller, Daniel M. -	New Haven, Ct.	Hydraulic elevator
Munson, Job L. -	New Hampshire -	Pump
Morey, Samuel -	Do -	Do
Manning, John -	Powhatan co., Va.	Water by wind, raising
Mosby, L. H. -	Do -	Do from fountains, raising
Miller, Henry -	Allenstown, Pa.	Do by successive pumps, raising
		Do raising by a revolving wheel

LIST OF PATENTEES—HYDRAULICS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
McClure, Samuel	Wilmington, Ohio	Water, raising by atmospheric pressure	Aug. 25, 1829
Nicholson, Thos., and Samuel Gunn	Genoa, N. Y.	Pump	Aug. 6, 1813
Nicholson, Thomas	Washington City, D.C.	Do	April 29, 1817
Ormsbee, Elijah	Rhode Island	Engine, screw, water	Mar. 21, 1798
Pollock, Allen, and Jacob Perkins	Boston, Mass.	Engine, fire	Aug. 6, 1812
Perkins, Jacob	Newburyport, Mass.	Do do	Mar. 23, 1813
Phillips, John S.	Philadelphia, Pa.	Filtering water	Aug. 27, 1828
Pennock, Abm. L., & J. Sellers	Do	Hose or leather tubes	July 6, 1818
Parker, Z. A.	Conhocton co., Ohio	Hydraulic power	Oct. 19, 1829
Putnam, Elisha	Albany, N. Y.	Pipes to prevent waste of water, conduit	Dec. 31, 1816
Do	Do	Do conduit	Nov. 18, 1818
Putnam, Joseph	Salem, Mass.	Do tubes, &c.	Jan. 17, 1827
Packard, Theophilus	Sherburn, Mass.	Do testing leaden	April 28, 1828
Perkins, Jacob	Massachusetts	Pump	July 9, 1801
Do	Newburyport, Mass.	Do	Mar. 23, 1813
Parcell, William	New York	Do	Nov. 1, 1817
Paddleford, John	Lebanon, N. Y.	Do forcing	May 6, 1823
Pitkin, Levi	Rochester, N. Y.	Do for beer, soda water, &c.	Oct. 11, 1828
Palmer, William	New York	Water, raising	Aug. 25, 1801
Patterson, George	Philadelphia, Pa.	Do do from wells	Feb. 6, 1813
Richardson, John, jr.	Shrewsbury, Mass.	Engine, fire	July 24, 1818
Ruggles, Elisha	Rochester, Mass.	Fire fenders for preventing the spread of fire	Feb. 27, 1821

Roup, Jacob	Kenhawa, Va.	Hydraulic machine	Oct. 6, 1827
Ramsay, Robert	Hanover, N. H.	Pipes, conduit clay	June 24, 1808
Robbins, Thos. B.	Stockbridge, Mass.	Pipes, aqueduct	Mar. 19, 1821
Rigg, Elisha	Pennsylvania	Pump	July 29, 1794
Reeve, Mark	Do	Do and water pipe	Dec. 14, 1798
Rhodes, William	New York	Do	May 16, 1808
Russell, Sylvanus	Olean, N. Y.	Do	Feb. 4, 1826
Robinson, J. and Luke Shaw	Bath, Me.	Do	Feb. 1, 1827
Ramsey, James	Burke, Vt.	Aqueducts, clay tubes for Water blast	April 4, 1810
Ruggles, Jos.	New Milford, Ct.	Do raising	June 6, 1811
Rolph, Social	Albany, N. Y.	Boxes, pump	Nov. 16, 1822
Stickney, John	Baltimore, Md.	Do do metallic single valve	May 1, 1804
Scott, Isaac	Boston, Mass.	Cock, stop	May 2, 1817
Sharman, Daniel	Warren, N. Y.	Do valve	July 5, 1814
Samno, Fred. D.	Philadelphia, Pa.	Cock for hydrants, valve	June 29, 1821
Stanchiffe, Benjamin	Do	Engine, hydraulic fire	May 15, 1827
Strong, John	Massachusetts	Do do	Mar. 24, 1801
Stewart, Stephen	New York	Do do	Dec. 6, 1803
Smith, Jacob, Jr.	Do	Do do	May 20, 1807
Shalk, Geo., and William Tintoff	Lebanon, Pa.	Do do	Sept. 23, 1826
Seymour, Bradford.	Westmoreland, N. Y.	Fluids, retention and discharge of	Nov. 10, 1827
Shultz, William	Philadelphia, Pa.	Hydraulic machine	May 26, 1812
Southworth, Elijah	New York	Hydrometer	Feb. 28, 1821
Smith, John A.	New London, Ct.	Liquors, mode of elevating	Aug. 7, 1826
Shultz, Wm.	Baltimore, Md.	Pump, mechanical	June 24, 1809
Schrack, Lewis	Norristown, Pa.	Do balance wheel	Dec. 8, 1809
Smith, Eli	Palmer, Mass.	Do for fire engines, horizontal double forcing	Nov. 6, 1810
Smalman, James	Philadelphia, Pa.	Do double, air and water	Mar. 27, 1815
Scammon, Edward B.	Scipio, N. Y.	Do	June 20, 1816

LIST OF PATENTEES—HYDRAULICS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Sealy, Richard	New York	Pump for beer and cider	May 6, 1825
Seldon, George M.	Troy, N. Y.	Do tide basin	Mar. 10, 1828
Smith, Samuel	Mendon, N. Y.	Water from wells, &c., raising	Aug. 20, 1828
Do	Do	Do	Mar. 17, 1829
Taylor, Benj.	New York	Fire, mode of extinguishing and preventing its progress	Mar. 31, 1794
Tomlinson, Daniel	Brookfield, Ct.	Hydraulic machine	Mar. 27, 1805
Tucker, Joseph C., & E. Dwelle	Boston, Mass.	Hydrometer	Dec. 23, 1822
Todd, Alpheus	Oxford, N. H.	Pipes, leaden	April 18, 1814
Thayer, Sol.	Massachusetts	Pump, impellent	Jan. 9, 1801
Taylor, Aaron	Boston, Mass.	Do forcing	Oct. 4, 1805
Tilton, William P.	Do	Do	May 6, 1817
Thomas, Spencer	Do	folding paddle	Oct. 10, 1817
Thornton, William	Washington, D. C.	Water and other fluids, cooling	July 31, 1817
Upham, Pliny	Brookfield, Mass.	Pump, pneumatic forcing	Jan. 6, 1809
Do	Do	Do	Mar. 9, 1811
Updike, Daniel	New York	applying power to common	Feb. 19, 1818
Underwood, Noah	Baltimore co., Md.	Pole, and fire engine assistant, life	July 17, 1828
Vanloan, William W.	Catskill, N. Y.	Pump boxes	Feb. 2, 1822
Williams, Israel P., & S. G. Rea	Salem, Mass.	Bucket, emptying well	Dec. 9, 1828
Willard, Elijah	Egremont, Mass.	Cock, stop	June 15, 1826
Walker, Peter	New York	Do or lock, for the passage of fluids	April 10, 1800
Witherle, Joshua	Boston, Mass.	Engine, domestic fire	Jan. 16, 1811
Wadsworth, William	Hartford, Ct.		Mar. 16, 1829

Williams, E. & J. Collins	Falley's x Roads, Ms.	Do fire, and water pump	June 20, 1823
Wilcox, Richard	New York -	Do pneumo-hydraulic	Nov. 1, 1823
White, George B.	Do -	Filtering water	July 7, 1829
Wickersham, Thomas	Newbury, Pa.	Pipes, clay	May 13, 1828
Watson, Daniel	Plymouth, Mass.	Pumps, common suction	March 4, 1808
Wileman, Russell	E. Hartford, Ct.	Do	July 9, 1829
Willard, Elijah	Egremont, Mass.	Water from wells, drawing	Nov. 2, 1825
Winter, John	Brutus, N. Y.	Do raising and sawing timber by	Nov. 15, 1825
Willard, Elijah	Egremont, Mass.	Do from wells	Oct. 23, 1826
Willbur, Isaac	Madison, N. Y.	Do do	Dec. 28, 1826
Youle, George	New York -	Cock, water -	Oct. 25, 1803
Yeamans, Royal	Springfield, Mass.	Pumping -	May 28, 1810

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEE'S.	RESIDENCE.	WHEN ISSUED.
Air draught, subignus	Samuel Randall	Providence, R. I.	Mar. 12, 1811
Do flue, descending	James Macomber	Greenwich, N. Y.	Nov. 19, 1811
Do back for chimneys	Joel Root	Southington, Ct.	Feb. 13, 1812
Do rarified and unrarified, mode of obtaining power by their difference	Samuel Morey	Philadelphia, Pa.	April 8, 1812
Do heater, cylindrical	Charles Fowler	Hartford, Ct.	July 10, 1829
Alcohol, extracting by steam	A. & N. Wolcott	Bloomfield, N. Y.	Mar. 19, 1827
Atmospheric engine	E. & J. Prentiss	Baltimore, Md.	June 22, 1824
Do propelling engine	Edw. A. Talbott	Dublin, Ireland	June 21, 1828
Steam engine	James Mead and Ab. Kitchell	Lebanon, Ohio	July 27, 1829

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Baker, Wilcox's economical Bath, double still steam	Philip Wilcox John J. Giraud	Springfield, Mass. Baltimore, Md.	Feb. 18, 1829 April 18, 1804
Do floating	Henry Chevens	New York	July 13, 1813
Do warm vessel	Daniel Harrington	Centreville, Va.	Oct. 4, 1813
Do portable hot	Samuel K. Jennings	Lynchburg, Va.	Jan. 21, 1814
Do veterinary, ventilated	James Carver	Philadelphia, Pa.	Aug. 8, 1817
Do steam	John Deverin, and J. D. Isabelle	Lexington, Ky. New York	July 6, 1818 Dec. 7, 1821
Do do medicated	Benjamin Marshall	Do	Feb. 1, 1814
Do or bathing machine	William Merritt	Cambridge, Mass.	Feb. 17, 1820
Beer, making spruce	John Williams	New York	May 22, 1827
Blower, coal grate	R. Fuller & T. Thomas	Salem, Mass.	Aug. 26, 1791
Boiler, steam engine	Nathan Read	Bergen co., N. J.	Aug. 26, 1791
Do do	John Stevens, jr.	Virginia	May 31, 1796
Do do engine	Elijah Bachus	Connecticut	April 27, 1803
Do mode of setting	Benjamin Platt	Delaware	Oct. 28, 1803
Do for steam, still	William Thornton	Portland, Me.	June 1, 1805
Do steam engine, heating water by the rays of the sun	Eben Jenks	Gettysburg, Pa.	July 11, 1807
Do double, for distilling	Mat. Longwell	New Haven, Ct.	Dec. 19, 1808
Do steam, and boats	Enos Gunn	Washington city, D.C.	Jan. 16, 1809
Do or heater, pipe or grate	William Thornton	Philadelphia, Pa.	July 7, 1809
Do and rectifying still, (boiler patented to Tim. Kirk, Do still patented to William Chamberlain)	Samuel Bolton	Baltimore, Md.	Oct. 29, 1810
Do circular	William Eaton Jona. Sizer	New London, Ct.	Oct. 15, 1811

Do	stone, for chemical purposes	Boston, Mass.	June 13, 1812
Do	box	New Haven, Ct.	Oct. 3, 1812
Do	cylindrical	Hudson, N. Y.	Oct. 9, 1813
Do	-	Goshen, N. Y.	June 28, 1814
Do	and furnace, united	Herkimer, N. Y.	Jan. 23, 1815
Do	or steam generator	Cazenovia, N. Y.	Mar. 30, 1815
Do	steam engine	New York	Jan. 26, 1816
Do	steam, and steam engine	Kentucky	Nov. 15, 1816
Edw. Rumsey, ex'r	of James Rumsey	New York	Dec. 13, 1816
	Humphrey Ricketson	Oxford, N. H.	Mar. 13, 1817
	Samuel Morey	Baltimore, Md.	Nov. 20, 1817
	Royal Yeaman	Boston, Mass.	Feb. 28, 1818
	John L. Sullivan	Do	Feb. 28, 1818
	Do	Oxford, N. H.	Dec. 19, 1818
	Samuel Morey	Boston, Mass.	Dec. 29, 1818
	John L. Sullivan	Greene co., N. Y.	Feb. 19, 1819
	Thomas E. Barker	Hartwick, N. Y.	Feb. 27, 1819
	Thomas Pierce	Baltimore, Md.	Jan. 9, 1815
	Royal Yeaman	Bainbridge, N. Y.	June 26, 1821
	Stephen Stillwell	New York	Nov. 30, 1821
	Thomas Skidmore	Do	Dec. 13, 1821
	Stephen Baker	Butler co., Pa.	Sept. 25, 1823
	And'w Glendenning	New York	Mar. 25, 1824
	Ralph Bulkley	Do	April 8, 1824
	Do	Manchester, N. Y.	May 27, 1824
	John R. Averill	New York	Sep. 16, 1824
	H. V. Raymond	Baltimore, Md.	Feb. 7, 1827
	John Barker	Sheffield, England	May 14, 1827
	John Poole	Boston, Mass.	May 14, 1827
	Eben. A. Lester	New York	Feb. 22, 1828
	James G. Wilson		

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Boiler, steam engine	James P. Allaire	New York	May 14, 1828
Do for oil and refining sugar	Wm. A. Archibald	Do	May 29, 1828
Do steam	Lem'l M. Richards	Chagrin river, Ohio	Aug. 21, 1828
Do engine	Alden Polter	New York	Oct. 11, 1828
do	Anth'y Hermange	Baltimore, Md.	Nov. 26, 1828
Do for anthracite coal, setting up in distilleries	John Lovatt	Philadelphia, Pa.	Mar. 17, 1829
Do flat, for steam	David Fanshaw and H. Hanks	New York	June 11, 1829
Do steam	Frs. Coffin and Chas. C. K. Beach	Boston, Mass.	June 29, 1829
Do constructing	Jos. Hurd, jr.	Do	Nov. 10, 1829
Boiling, method of, applicable to distilling	Benj. Eggleston, jr.	Princeton, N. Y.	May 27, 1805
Do water, and producing steam	John H. Williams	Brunswick, N. J.	July 26, 1810
Do potatoes or other food for cattle	Hosea E. Potter	Otsego, N. Y.	Nov. 20, 1810
Do salt water, improvement on Moffitt's	Zina Phinney	Cairo, N. Y.	June 19, 1812
Do	Caleb Shepard	Cincinnati, N. Y.	Oct. 4, 1817
Brandy, manufacturing from all kinds of grain	Chris. H. Hutter	Pennsylvania	Feb. 11, 1803
Do imitating from domestic materials	Henry Moore	Aurora, N. Y.	July 2, 1814
Brewing from Indian corn	Alex. Anderson	Pennsylvania	Jan. 26, 1801
Do spruce beer	William Derean	Philadelphia, Pa.	June 13, 1815
Do by steam	Arthur Redmond	Nashville, Tenn.	May 20, 1819
Do apparatus	Harvey Hackley	New York	April 21, 1820
Cabouse for cooking	R. L. Lloyd and A. Bartenheimer	Philadelphia, Pa.	Jan. 27, 1824
	John Youle	New York	May 25, 1795

Cabouse for distilling fresh from salt water	Simeon Rouge	Jan. 1, 1803
Do iron	Wm. Ashbridge	June 28, 1803
Do	George Youle	Mar. 21, 1806
Do and cooking stove	Do	April 1, 1807
Do	Do	July 27, 1809
Do portable kitchen or stove	James Truman	Dec. 3, 1811
Do	John Bouis	Dec. 31, 1812
Cane juice, clarifying	Wm. J. McIntosh	Mar. 7, 1828
Candlestick	Benj. Dearborn	Oct. 29, 1804
Do holder, economical	Peter Ward and B. Allison	Philadelphia, Pa.
Do stick, pewter	Joshua Witherle	Boston, Mass.
Case, metallic, for kettles, boilers, stills, &c.	Charles Gaston	Williamsport, Pa.
Charcoal from peat	Charles Fales	Worcester, Mass.
Do for gunpowder	Fielder Parker	Pr. George's co., Md.
Do manufacturing	Isaac Doolittle	Bennington, Vt.
Charring wood for procuring gases	Samuel J. Jones	Philadelphia, Pa.
Chandeliers of crystallised salt	Fred. B. Merrill	Buffalo, N. Y.
Chimneys, improvement in	Richard Stuart	Maryland
Do	David Cooley & Gab. N. Phillips	New York
Do	John J. Thomas	Charleston, S. C.
Do	Giles Gridley	Newburyport, Mass.
Do	Lewis Leesane	Philadelphia, Pa.
Do	Oliver Richardson	Medway, Mass.
Do	Adam Spohn	Comrio, Pa.
Do	John Bruff	Baltimore, Md.
Do	Eben. Rand	Hudson, N. Y.
Do	Louis D. Detroisment	New York
Do	John Hunt	Baltimore, Md.
Do	do	New York
Do	Francis A. Everard	New York
protecting against water		Aug. 25, 1800
Do		Oct. 2, 1804
Do		Mar. 13, 1808
Do		June 26, 1809
Do		April 18, 1810
Do		Sept. 22, 1814
Do		Dec. 16, 1814
Do		Mar. 27, 1816
Do		April 5, 1817
Do		July 12, 1817
Do		May 28, 1818
constructing		
and fireplaces		
the machine for cleaning		
and fireplaces		
stoves and fireplaces		
the machine for sweeping		
do		
do		

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Chimneys, improvement in the machine for sweeping	Aaron Lane	New York	Sept. 22, 1818
Do do	William Hall	Do	Dec. 19, 1818
Do do	Sam'l S. Edmonson	Do	Nov. 8, 1820
Do do	Obed Delano	Utica, N. Y.	Mar. 3, 1821
Do do	the machine for sweeping	Washington, D. C.	Aug. 8, 1821
Do do	preventing smoking	Baltimore, Md.	Oct. 8, 1821
Do do	scraper	Cincinnati, Ohio	May 15, 1823
Do do	curing smoking	Williamsport, Pa.	July 26, 1824
Do do	and fireplaces	Lavonia, N. Y.	Feb. 9, 1825
Do do	crank and wheel, dampers for	Utica, N. Y.	June 8, 1826
Do do	James Reilly, & John	Waynesborough, Pa.	Mar. 10, 1827
Do do	Flannagan	Montrose, Pa.	April 3, 1829
Do do	A. H. Read	Elizabethborough, N.J.	June 11, 1829
Do do	Samuel Dow	Boston, Mass.	July 20, 1829
Do do	Deming Jarves	Waterford, N. Y.	Sept. 11, 1829
Do do	Charles Neer	Pennsylvania	Dec. 20, 1802
Do do	Timothy Kirk	New York	Sept. 30, 1825
Cistern, boiling	Lewis Martelly	Baltimore, Md.	Mar. 20, 1820
Coffee extractor	Peregrine Williamson	Do	June 18, 1825
Coffee roaster	Do	Borden town, N. J.	Jan. 19, 1811
Do	Aug. Day	Lancaster, Pa.	May 17, 1805
Combustion and explosion, used as a new power	Henry Witmer	New York	Mar. 2, 1811
Condensing tub, improvement on Anderson's	Noel Blanche	Marlborough, Vt.	Mar. 27, 1812
Do vapors in distillation	Rufus W. Adams	Philadelphia, Pa.	Oct. 27, 1813
Do box for wooden still	Alexander Anderson		
Do tub			

Do	steam and cooling liquor	-	-	Feb. 9, 1825
Condenser	-	-	Whitestown, N. Y.	Mar. 26, 1811
Do	and heater for manufacturing spirituous liquor	-	New Madison c. h., Va.	Nov. 18, 1814
Do	for steam engines	-	New York	Dec. 1, 1821
Cooking and boiling	-	-	Philadelphia, Pa.	Dec. 23, 1796
Do	-	-	Connecticut	Aug. 22, 1809
Do	steam apparatus	-	Baltimore, Md.	Jan. 6, 1812
Do	apparatus	-	New Haven, Ct.	Oct. 3, 1812
Do	machine for families	-	New York	Nov. 14, 1815
Do	do portable	-	Philadelphia, Pa.	Feb. 18, 1825
Do	apparatus	-	New York	Mar. 24, 1827
Do	fixtures for anthracite coal	-	Philadelphia, Pa.	June 8, 1827
Do	apparatus	-	Kingsbury, N. Y.	Feb. 15, 1828
Do	machine, called the economical cook	-	Philadelphia, Pa.	Mar. 19, 1829
Do	applying heat from iron castings for	-	Troy, N. Y.	June 11, 1829
Distilling, improvement in	-	-	Medford, Mass.	Jan. 29, 1791
Do	do	-	Nathan Read	Aug. 26, 1791
Do	do	-	Jos. Simpson	Mar. 4, 1794
Do	do	-	Fitch Hall	April 17, 1797
Do	do	-	Alex'r Anderson	Jan. 26, 1801
Do	do	-	Daniel Ilsley	May 14, 1803
Do	do	-	Lemuel J. Kilborn &	-
Do	do	-	John Birdis	June 4, 1803
Do	do	by steam	Samuel Brown, Edward West & Thomas West	-
Do	do	apparatus	Abn. Heistand	July 8, 1803
Do	do	do	Abn. Weaver	Nov. 27, 1805
Do	do	or boiling water	Eli Barnum and Benjamin Brooks	April 23, 1807
Do	do	-	New Marlboro', Mass.	Mar. 21, 1808
Do	do	-	Do	July 13, 1808

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Distilling or distillation apparatus	John Dimond	Philadelphia, Pa.	Dec. 28, 1808
Do	Antoine Boucherie	Do	Jan. 30, 1809
Do	Burgess Allison	Beaufort, S. C.	July 6, 1809
Do	Jos. Coppinger	Vermont	Nov. 21, 1809
Do	William Chamberlain	Middletown, Ct.	Mar. 17, 1810
Do	John M. Bennett	Alford, Mass.	May 1, 1810
Do	Augustus Tobey	Staunton, Va.	June 21, 1810
Do	Mich'l Garber, sr.	Pittsfield, Mass.	July 13, 1810
Do	David Jewett	Schenectady, N. Y.	Jan. 24, 1811
Do	John Saunders	Lancaster co., Pa.	Feb. 7, 1811
Do	Jac. Miller	Washington City, D.C.	Mar. 2, 1811
Do	William Gamble	Boston, Mass.	April 18, 1811
Do	Andrew Dunlop	Baltimore, Md.	May 3, 1811
Do	John J. Giraud	Jac. Sherer and Abm.	June 14, 1811
Do	Killian	Lancaster, Pa.	June 17, 1811
Do	Jona. Shaw	Palmer, Mass.	Nov. 13, 1811
Do	Lewis Leesne	Belleville, N. J.	Dec. 4, 1811
Do	Omri Carrier	Enfield, Ct.	Nov. 2, 1812
Do	John Morris	New Haven, Ct.	Mar. 3, 1813
Do	John Bates	Hartford, Ct.	Jan. 26, 1813
Do	Charles Jenks, and	E. Windsor, Ct.	July 12, 1813
Do	Abiel Pease	Hartford, Ct.	Aug. 18, 1813
Do	Thomas Belden	Shawangunk, N. Y.	Dec. 31, 1813
Do	Isaac Hoffman		

John W. Alber	Pennsborough, Pa.	April 19, 1814
Wm. M. B. Wollias & Hiram P. Barlow	Oneida co., N. Y.	May 6, 1814
Simeon Shirtliff	Do	July 5, 1814
David Dewey	Sullivan, N. Y.	July 5, 1814
Naphthal Hart	Easton, Pa.	Oct. 29, 1814
Enos Brown	Oneida co., N. Y.	Jan. 23, 1815
William A. Rapp.	New York	Dec. 4, 1815
Hez. Carry	Brooklyn, N. Y.	Feb. 16, 1816
John Whips	Jefferson co., Ky.	April 22, 1816
Naman Goodsell	Paris, N. Y.	June 13, 1816
William Richardson	Kingston, N. Y.	June 15, 1816
Ezra Talmage	Lancaster, Ky.	July 8, 1816
Amos Blood	Boston, Mass.	July 16, 1816
Pierce Woods	Frederick co., Md.	Sept. 29, 1818
James Case	New York	Mar. 18, 1819
Henry Field	Camillus, N. Y.	June 17, 1819
Fred. Kalisky	Philadelphia, Pa.	Dec. 14, 1819
Richard Wilcox	New York	April 20, 1820
David Cutler	Leonard co., O.	Feb. 20, 1821
Robert Blaikie	New York	April 27, 1821
Henry F. Fisher	Philadelphia, Pa.	Sept. 12, 1821
Philip Griermer	Brandywine, Pa.	April 17, 1822
Fred. S. Cozzens	New York	July 27, 1822
Uriah Sweetland	Kingston, Pa.	Nov. 18, 1822
Elias Giellanson	Halifax towns'p, Pa.	Jan. 14, 1823
Malcolm McDonald	Fayette co., Pa.	Feb. 19, 1823
J. Carpenter and J.		
Roe	New York	Jan. 29, 1824
Daniel Jackson	Peru, N. Y.	Dec. 28, 1824
William Avery	Pompey, N. Y.	May 13, 1825

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Distilling all kinds of liquor	Norman & A. Walcott	Bloomfield, N. Y.	Dec. 8, 1826
Do	John M. Aiken	Philadelphia, Pa.	Aug. 30, 1827
Do	Abm. Whitson	Staunton, Va.	Sept. 28, 1825
Do	Lewis C. and Phil. Bodman	Baltimore, Md.	Sept. 30, 1825
Do	John C. Douglass	Troy, N. Y.	Nov. 26, 1825
Do	Samuel Harwood, 3d	Braintree, N. Y.	April 15, 1826
Do	Wm. J. Cocke	Surry county, Va.	Oct. 30, 1827
Do	Davis Embree	New Richmond, O.	Dec. 3, 1827
Do	James Lusk	Butler county, O.	Dec. 22, 1827
Do	Wm. J. Cocke	Cabin Point, Va.	Feb. 4, 1828
Do	Benjamin Barr	Strasburg towns'p, Pa.	April 5, 1828
Do	Jacob Hugus	Hempfield t'ns'p, Pa.	May 17, 1828
Do	David White	Fredonia, N. Y.	June 17, 1828
Do	T. Lawes & P. Grosjean	Louisville, Ky.	July 30, 1828
Do	James R. Nance	Floyd, Ind.	Dec. 27, 1828
Do	Anthony Doolittle	Ann Arbor, M. T.	Nov. 10, 1829
Do	William Cooke	Southport, N. Y.	Dec. 7, 1829
Do	David F. Lanny	Philadelphia, Pa.	Aug. 23, 1811
Do	Jno. Richardson	New York	Sept. 13, 1802
Do	Jno. Moffit	Do	Feb. 1, 1803
Do	Jno. Richardson	Do	April 4, 1803
Electrophorus	Augustus Kolb	Steubenville, O.	Jan. 14, 1825
Evaporating furnace	Charles Sholes	Phelps, N. Y.	July 26, 1826
Do	Benjamin Henfrey	Pennsylvania	Mar. 2, 1801
Do	pan and furnace liquids		
Do	Evaporation in distilling		

Do		Thomas Arnold	Mar. 5, 1806
Evaporator	-	Thomas Bedwell and Benj. Henfrey	
Do	and steam engine	David Heath	Feb. 12, 1801
Do	compound	Jno. A. Wadsworth	July 26, 1816
Extinguisher and chimney regulator	-	Daniel Shoemaker	Nov. 23, 1825
Do	do sweper	Ephraim Paine	Mar. 27, 1812
Do	fire and chimney	Daniel Berrien	Dec. 11, 1817
Fermenting apple cider	-	Wm. Elder	New York
Do	and distilling spirits	Ira Belknap	New Brunswick, N. J.
Fire cavern	-	Abm. Quincy	Millersburg, Pa.
Firemen protecting machine	-	Ralph Bulley	Boston, Mass.
Fire, mode of extinguishing	-	Samuel P. Lord, jr.	New York
Fireplaces	-	Charles W. Peale	Connecticut
Do	the Columbia	Robert Hettick	Pennsylvania
Do	the double draught	Talmage Ross	Winchester, Va.
Do	close	Horatio B. Spafford	New Jersey
Do	with flat funnel	Abm. Fisher	Hudson, N. Y.
Do	and stoves	Allen Pollock	New Jersey
Do	-	Giles Gridley	Boston, Mass.
Do	-	Eb. Whiting	Newburyport, Mass.
Do	-	Charles E. Cooper	Gr. Barrington, Mass.
Do	grated	Augustus Graham	Albany, N. Y.
Do	and andirons	Jno. Sweet	Fredericktown, Md.
Do	-	Peter Sternberg	Berkshire, Mass.
Do	-	Do	Montgomery co. N.Y.
Do	-	Do	Do
Do	fluted back	Eli Mix	New Haven, Ct.
Do	and chimney	Samuel Morey	Philadelphia, Pa.
Do	and stove	David F. Lanny	Do
Do	-	Ezra Haskell	New London, Ct.

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

portable, for casting brass or other metal	Joseph Share	Baltimore, Md.	Mar. 30, 1813
air for stone coal	Thomas Gregg	Connellsville, Pa.	Mar. 16, 1814
for melting and refining metals	Thos. & Jos. Barnhurst and Wm. Walker	Philadelphia, Pa.	May 4, 1814
Do	Peter Tomlinson	Derby, Ct.	Mar. 7, 1815
and fireplace for heating and evaporating liquids	Henry Warral	New York	Dec. 31, 1821
eupola	Geo. W. Robinson	Attleborough, Mass.	Aug. 19, 1822
making fire-proof for distilleries	John Miller	Northampton, Pa.	Mar. 13, 1823
and forge backs	Lewis Gillet	Copenhagen, N. Y.	Aug. 21, 1823
for fossil coal	Daniel Stansbury	Bellville, N. J.	April 15, 1825
stoves, &c., constructing	Social Ralph	Wailes, N. Y.	Nov. 8, 1826
Do	Wm. Church	Boston, Mass.	Nov. 20, 1826
Do	J. W. Boot and Wm.	Do	Dec. 29, 1826
Lynn	Garet V. Raymond	Richmond, Va.	Sept. 29, 1825
Do	Oliver Woodruff	New York	Nov. 7, 1825
for heating hatters' finishing irons	John L. Sullivan	Do	Nov. 26, 1825
for burning anthracite and other coal	Garet Post	Auburn, N. Y.	May 22, 1826
do	Benjamin B. Howell	Philadelphia, Pa.	Oct. 11, 1828
Do	Do	Do	Oct. 14, 1828
Do	Leonidas V. Badger	Dover, N. H.	Jan. 30, 1829
for heating iron hoops-	John Hurd, Jr.	Boston, Mass.	Nov. 10, 1829
iron	J. G. M. Pionnell	New York	Mar. 24, 1803
steam, for anthracite coal	Samuel Brown	London, England	Mar. 2, 1824
and oven, portable cooking	Maximin Ishard	New York	Dec. 11, 1824
Do	Samuel Morey	Oxford, N. H.	April 1, 1826
with reflectors	Minus Ward	Baltimore, Md.	May 15, 1827
Gas, antiseptic	Denison Olmstead	New Haven, Ct.	July 21, 1827
Do	M. Ward & R. W. Hall	Baltimore, Md.	Jan. 19, 1828
engine without steam	David Melville	Newport, R. I.	Mar. 24, 1810
Do	Do	Do	Do
Do or vapor engine	Do	Do	Do
Do and heated air in aid of steam power	Do	Do	Do
Do light from cotton seed	Do	Do	Do
Do inflammable, during the combustion of anthracite	Do	Do	Do
coal	Do	Do	Do
Do lamp	Do	Do	Do

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Gas lamp	David Melville	Newport, R. I.	Mar. 18, 1813
Gauge sight for steam boilers	Wm. Barker	Kingston, Pa.	Mar. 24, 1826
Gin cordial	Antoine Boucherie	Philadelphia, Pa.	Jan. 31, 1809
Do making	Erastus V. Freeman	-	April 10; 1811
Grates, improvement in	Charles Hunt	New York	Mar. 17, 1812
Do do	Charles M. Graham	Do	Nov. 10, 1821
Do do	Robert Mayo	Richmond, Va.	Nov. 1, 1825
Do do	S.C. Mott & W.W. Holmes	New York	Nov. 26, 1826
Do do	Thomas Vinton	Philadelphia, Pa.	Oct. 31, 1829
Heat applied to fluids	S. Applegate, T. Howard, & P.H. Wharton	Do	Nov. 22, 1809
Do spare, of a blast furnace, applied to steam engines	Edw. Burall	Canaan, Ct.	Jan. 31, 1816
Do collecting, and retaining in stoves	William Phoebus	New York	Nov. 28, 1817
Do retainer and imparter	John R. Mitchell	Philadelphia, Pa.	Nov. 19, 1818
Do evolution and management of	Eliphilaet Nott	Schenectady, N. Y.	Mar. 23, 1826
Do do	Do	Do	June 21, 1826
Do do	Do	Do	Dec. 29, 1826
Do do	Do	Do	May 30, 1827
Do do	Do	Do	Oct. 30, 1827
Do escape of the steam engine, application	Alex. Brown	Schenectady, N. Y.	Mar. 26, 1828
Do evolution and management of	Eliphilaet Nott	New York	Nov. 8, 1828
Do produced by management of combustion	Keene A. Bille	Boston, Mass.	April 24, 1807
Heating rooms, method of	Allen Pollock	Canaan, N. Y.	June 13, 1812
Do liquids	Roswell Valentine	Genoa, N. Y.	June 2, 1813
Do water for tanning in cold weather	Caleb Atwater	Washington co., Md.	June 15, 1819
Do plates for hot pressing	Moses A. Quigley	-	-

Do	liquids in wooden cisterns	July 15, 1822
Do	and boiling water	Dec. 27, 1826
Do	liquids	Jan. 16, 1809
Ice preserver, portable	Illuminator for stair cases	Aug. 28, 1821
Kettles, &c., setting for boilers	Baltimore, Md.	June 24, 1808
Do	and boiler for heating water	July 17, 1818
Kiln, lime	Attleborough, Mass.	Sept. 26, 1825
Do	Baltimore, Md.	Aug. 28, 1821
Do	Hartford, Ct.	Aug. 28, 1821
Do	Lockport, N. Y.	Aug. 28, 1821
Do	Philadelphia, Pa.	Aug. 28, 1821
Do	New York	Aug. 4, 1800
Do	Bucks co., Pa.	July 7, 1810
Do	Clinton co., N. Y.	July 18, 1811
Do	Baltimore, Md.	Aug. 17, 1811
Do	Colebrook, N. H.	July 9, 1812
Do	Elizabethtown, N. J.	Oct. 21, 1815
Do	Hudson, N. Y.	Jan. 7, 1817
Do	Jenkerstown, Pa.	Jan. 22, 1817
Do	Lancaster, Pa.	Mar. 14, 1817
Do	Philadelphia	Feb. 2, 1818
Do	Hibernia, Tenn.	Aug. 30, 1822
Do	Fleming co., Ky.	Nov. 7, 1822
Do	Boteourt co., Va.	Feb. 7, 1824
Do	New York	Dec. 4, 1824
Do	Mill Creek, Va.	June 20, 1825
Do	Washington, D. C.	Oct. 31, 1825
Do	Wellshburg, Va.	May 10, 1826
Do	New Milford, Ct.	Feb. 12, 1827
Do	Mill Creek hund.Del.	Feb. 15, 1827
Do	Philadelphia, Pa.	Sept. 10, 1829
Do	Newburg, N. Y.	Dec. 26, 1829
Do	Abel Jeans	July 12, 1804
Do	Louis Boneisler	July 10, 1800
Do	Aaron Noyes	July 10, 1800
Do	Thomas Power	Middlesex, N. J.
Do	James Deneale	Dec. 20, 1805
Do	James Abraham	Dec. 20, 1805

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Kitchen, steam, for ships	Nich. Boureau	Herkimer, N. Y.	Aug. 30, 1802
Do do baking	Samuel Smith	New York	June 11, 1811
Do moveable	George Youle	Baltimore, Md.	July 1, 1814
Do summary	John Bouis	South Carolina	Jan. 19, 1826
Lamp for tallow	John Love	Baltimore, Md.	June 11, 1798
Do and liquids to be burnt therein	Joseph Hawkins	New York	April 21, 1810
Do	James Mallory	Boston, Mass.	Nov. 20, 1812
Do nurse	William Howe	-	Dec. 31, 1812
Do double reflecting	Wm. Foster, jr., and Leonard Foster	Do	Do
Do	Edw. Clarke	Philadelphia, Pa.	Aug. 28, 1813
Do	Alexander Black	Barnstable, Mass.	April 27, 1814
Do	Winslow Lewis	Boston, Mass.	Oct. 3, 1817
Do	David Melville	Newport, R. I.	Jan. 23, 1818
Do	Asa Taylor	Philadelphia, Pa.	Nov. 19, 1818
Do	Ez. F. Smith	Lenox, Mass.	Oct. 9, 1819
Do	Jostah Warren	Cincinnati, O.	Nov. 8, 1819
Do	James Duke	New York	Feb. 28, 1821
Do	Chris. Cornelius	Philadelphia, Pa.	Aug. 15, 1821
Do	Thomas Phillips	New York	Dec. 28, 1822
Do	Thos. G. Fessenden	Boston, Mass.	June 25, 1823
Do	Jos. Feinour and Jos. Feinour, jr.	-	Jan. 31, 1827
Do	Do	Philadelphia, Pa.	April 5, 1828
Do	Do	Do	Aug. 1, 1828

Do	construction of, and economy of light	New York	Mar. 3, 1829
Do	Do	Do	June 11, 1829
Do	Do	Do	Sept. 10, 1829
Lantern			
Do	reflecting and magnifying	John Saniford and	May 10, 1804
	Light, extracting from fuel	Anos D. Allen	Boston, Mass.
	Light from stone coal gas	Winslow Lewis	Windham, Ct.
	Zigger	Benjamin Lienfry	Pennsylvania
	Elisha Calandor	Lewis Eters and W.	Georgetown
	John Brown and Geo.	Boston, Mass.	Boston, Mass.
	W. Robinson	Providence, R. I.	Sept. 24, 1825
	Jedediah Peasley	Vermont	Feb. 1, 1830
	Charles Vale	-	May 2, 1806
	Jos. H. Lanning	-	-
	David Lowndes	Davidson co., Tenn.	Dec. 23, 1824
	William Cornell	Pennsylvania	July 21, 1803
	Thomas Whitemell	Brooklyn, N. Y.	Aug. 20, 1827
	Warham Whitney	Scotland Neck, N. C.	Sept. 2, 1815
	Richard Allison and	Rochester, N. Y.	Jan. 19, 1826
	N S. Allison	Burlington, N. J.	Mar. 26, 1814
	James Heaton	New York	July 28, 1819
	Jos. Walworth	Do	Oct. 17, 1809
	Daniel Walworth	Middletown, Ct.	May 27, 1814
	James Deneale	Dumfries, Va.	Dec. 4, 1806
	John West	Stafford, Va.	Oct. 27, 1808
	John Barnitt	Upper Providence, Pa.	Mar. 3, 1809
	John Bouis	Baltimore, Md.	Dec. 30, 1812
	Wm. T. Hunter	New York	Jan. 8, 1818
	Ephm. Treadwell	Salem, Mass.	Aug. 27, 1818
	Richard Wilcox	New York	April 20, 1820
	portable rotary		

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Ovens, flue door	-	-	-
Do bake	-	-	-
Do revolving	-	-	-
Do and rooms, heating	-	-	-
Do for baking over a cooking furnace	-	-	-
Do portable	-	-	-
Do with reflectors	-	-	-
Pan, salt water	-	-	-
Pipes for stills of tin plate, lead	-	-	-
Piston, rotative	-	-	-
Pump, double air for steam engines	-	-	-
Do steam	-	-	-
Do do boiler	-	-	-
Do do	-	-	-
Reconductor, the	-	-	-
Rectifying spirits	-	-	-
Do do	-	-	-
Do do	-	-	-
Do do	-	-	-
Do do by steam	-	-	-
Do do by distillation	-	-	-
Reflector, elastic lamp	-	-	-
Benj. Simonds, jr.	Bedford, Mass.	Oct. 15, 1821	
Henry Reip	Baltimore, Md.	Sept. 27, 1825	
Stephen Harris	Norfolk, Va.	Dec. 5, 1825	
Mich. B. Poiteaux	Richmond, Va.	Jan. 17, 1827	
Eli Moody	Northfield, Mass.	April 5, 1828	
Frs. L. Hedenberg	New York	April 26, 1828	
John Hurd, jr.	Boston, Mass.	Nov. 10, 1829	
Wm. Blockson and	Zanesville, Ohio	Mar. 23, 1829	
J. T. Fracker	New York	May 9, 1823	
Thomas Ewbank	Guildhall, Vt.	July 16, 1827	
John M. Cooper	Philadelphia, Pa.	Aug. 29, 1815	
James Smallman	Old Point Comfort, Va.	Feb. 16, 1826	
G. W. Long	Sweden, N. Y.	Feb. 24, 1827	
Alfred Judson	Whitestown, N. Y.	Jan. 16, 1811	
P. Bernard & T. Soper	Vernon, N. Y.	April 23, 1816	
John Sergeant	New Jersey	May 12, 1802	
Burgess Allison	Do	May 17, 1803	
Osborn Parsons	Hudson, N. Y.	June 23, 1808	
Abiel Pease & Saml.	-	-	-
Bestor	Enfield, Ct.	July 27, 1812	
Jonathan Shaw	Southport, N. Y.	June 21, 1825	
Robert Mauck	Gallipolis, Ohio	Dec. 7, 1829	
Josiah Flagg & Josiah	Boston, Mass.	May 17, 1810	
Flagg, jr.	-	-	-

Refrigerator	-	Maryland	Jan. 27, 1803
Do	-	Georgetown, D. C.	
Do for distilleries	-	Baltimore, Md.	Mar. 16, 1813
Do Rosin, pine, for fuel	-	Philadelphia, Pa.	Jan. 6, 1826
Salt, manufacturing	-	Massachusetts	Oct. 10, 1828
Do do	-	Pennsylvania	Jan. 24, 1799
Do do	-	Tennessee	Sept. 24, 1794
Do vats, mode of covering	-	Massachusetts	Nov. 16, 1796
Do manufacturing	-	Pennsylvania	Feb. 12, 1800
Do do	-	Virginia	May 12, 1802
Do do	-	Pennsylvania	Dec. 18, 1802
Do do	-	New Hampshire	Mar. 24, 1803
Do do	-	Braintree, Mass.	May 25, 1803
Do manufacturing apparatus	-	Suffolk, Mass.	May 16, 1804
Do do	-	Do	Nov. 13, 1805
Do extracting from sea water	-	Do	June 12, 1806
Do do do	facilitating the process	Do	June 12, 1806
Do do do	do	Do	June 12, 1806
Do manufacturing	-	Timothy Green	April 1, 1807
Do do	-	Benj. Wheeler	April 17, 1809
Do do	-	Do	Mar. 28, 1810
Do do	fine from coarse	Alexandria, D. C.	Oct. 11, 1811
Do do	do	King William co., Va.	Mar. 31, 1812
Do apparatus for boiling	-	Lynchburg, Va.	May 28, 1813
Do furnace and boilers	-	Do	May 29, 1813
Do manufacturing	-	Wm. J. Lewis	Feb. 1, 1814
Do do	-	Thomas Hord.	April 8, 1814
Do water evaporator	-	Wm. M. Hawkins	April 23, 1814
Do apparatus	-	Wm. and John D.	
		Raleigh, N. C.	May 26, 1814

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Salt, manufacturing, boring wells, and pumping water	Richard Deering	-	May 28, 1814
Do do	John J. Cabell	Lynchburg, Va.	June 10, 1814
Do do	Peter Sarchet, sr.	Cincinnati, Ohio	Sept. 27, 1814
Do do	Isaac W. Averill	Salina, N. Y.	Nov. 5, 1814
Do do	Wm. J. Lewis	-	Feb. 1, 1816
Do do	Alexander Black	Barnstable, Mass.	April 4, 1816
Do works, plan for erecting	David Thacher	Tuckerton, N. J.	Oct. 24, 1816
Do water, mode of obtaining	David & Jos. Ruffner	Kenawha, Va.	Jan. 18, 1817
Do manufacturing	Everard Hall	Princess Ann, Va.	Nov. 14, 1817
Do kettles for boiling	Jer. Kendall	Fayette co., Pa.	Mar. 18, 1818
Do manufacturing common	George Munger	New Haven, Ct.	June 23, 1818
Do boiling	Osborn Parsons	Pittsburg, Pa.	April 4, 1820
Do manufacturing	Gadw. D. Colden	New York -	Dec. 14, 1822
Do do	Jos. P. Rossiter	Salina, N. Y.	Mar. 2, 1824
Do do	Peter Cooper	New York -	Dec. 24, 1824
Do do	Daniel Gerard	Clay co., Ken.	Jan. 28, 1825
Do do	Benjamin Barlow	Geddes, N. Y.	June 25, 1825
Do do	Wm. Barker	Smithfield, R. I.	July 20, 1825
Do do	Calvin Guteau	Geddes, N. Y.	Sept. 9, 1825
Do do	Stephen T. Conn	Georgetown, D. C.	July 12, 1826
Do do	Benijah Byington	Salina, N. Y.	Feb. 21, 1827
Do do	J. A. Teissier	Boston, Mass.	Jan. 13, 1829
Do do	Do	Do	April 11, 1829
Do do	H. J. Tudor	Do	April 29, 1829

Do	do	by application of escape heat from steam engines	Alexander Browne	Salina, N. Y.	June 11, 1829
			Caleb Pierce	Salem, Mass.	April 29, 1829
			Abel W. Hardenbrook	New York	Feb. 10, 1807
			John Stevens	Hoboken, N. J.	Mar. 16, 1816
			John C. Teale	New York	Sept. 11, 1810
			John Acoff	Wheeling co., Va.	Mar. 5, 1818
			James Hall	-	Nov. 22, 1815
			Jos. & Stinson Demund	New Jersey	Jan. 17, 1816
			Benjamin Miller	North Salem, N. Y.	Feb. 21, 1814
			Samuel Morey	Oxford, N. H.	Jan. 26, 1793
			John Stevens, jr.	Bergen co., N. J.	Aug. 26, 1791
			Samuel Morey	Oxford, N. H.	Mar. 25, 1795
			Do	Do	Mar. 27, 1799
			Do	Albany, N. Y.	Nov. 17, 1800
			Ralph Letton	Do	Aug. 29, 1810
			James Rodgers	Newtown, Ct.	Sept. 27, 1811
			Marcus B. Parmelee	New Orleans	Aug. 25, 1812
			Samuel Briggs	John H. Morton, T.	May 28, 1817
			John H. Morton, T.	Bovly & R. Huston	April 28, 1818
			Aaron N. Subin	Frankfort, Ky.	Dec. 30, 1820
			Cotton Foss	Madison, O.	Aug. 2, 1826
			Joseph H. Lanning	Nashville, Tenn.	Aug. 12, 1826
			Isaac Doolittle	Bennington, Vt.	June 1, 1827
			Joseph Skinner	Mantua, O.	Mar. 14, 1828
			E. Packard and J. E.	Lexington, Ky.	
			Strong	Frankfort, Ky.	
			Joseph Mount	Madison, O.	
			Michael Musselman	Nashville, Tenn.	
			James Rumsey	Phelps, N. Y.	
				Barkley co., Va.	
					Aug. 7, 1829
					July 16, 1829
					Dec. 29, 1825
					Aug. 26, 1791

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

Samuel Briggs and	Andrew Steele -	Baton Rouge, La.	May 29, 1813
	Francis B. Ogden -	Essex, N. J.	Dec. 31, 1813
	John Dowers, Jr. -	Philadelphia, Pa.	April 23, 1814
	Charles Reynolds -	East Windsor, Ct.	July 23, 1814
	Borden Wilbor -	Whitestown, N. Y.	April 26, 1815
	Samuel Morey -	Boston, Mass.	July 14, 1815
	Junia Curtis -	Baltimore, Md.	Aug. 8, 1815
	Matthew Cluff -	Norfolk, Va.	Sept. 1, 1815
	John Stevens -	Hoboken, N. J.	Mar. 14, 1816
	Enoch Burt -	Elizabethtown, N. J.	May 12, 1816
	Do -	Do	June 25, 1816
	John Hilton -	Somerset, Me.	Aug. 22, 1816
	Samuel Fairlamb -	Marietta, O.	Oct. 24, 1816
	Edward Rumsey -	Kentucky -	Nov. 15, 1816
	Isaiah Jennings -	New York -	Jan. 17, 1817
	Nathan Read -	Boston, Mass.	Feb. 21, 1817
	John L. Sullivan -	Do	Mar. 24, 1817
	John Heavin -	Virginia -	Aug. 27, 1817
	Israel J. Richardson -	Geneva, N. Y.	Oct. 13, 1817
	Beardesley Hendryx & Halshead Price -	Springfield, N. Y.	April 13, 1818
	Joseph Eve -	Augusta, Ga.	May 28, 1818
	Wm. Church -	Baltimore, Md.	July 11, 1818
	John L. Sullivan -	Boston, Mass.	Dec. 10, 1818
	Antoine Babby -	New York -	May 26, 1819
	Robert Thomas -	Richmond co., N. C.	May 29, 1819
Do	do -	do	raising the power without increasing the
Do	do -	do	quantity of steam -
Do	do -	do	vibrating
	Charles Leeke -	Ross co., O.	Jan. 22, 1820
	Minus Ward -	Columbia, S. C.	Mar. 23, 1821
	Phineas Davis -	York, Pa.	Feb. 17, 1821

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Steam engine, rotary, shifting piston	J. Lansing and A. Thayer, jr.	Albany, N. Y.	Jan. 19, 1822
Do do rotary	Thomas Hutton	Philadelphia, Pa.	Feb. 28, 1822
Do do rotary	Dudley L. Farnam	Albany, N. Y.	Feb. 19, 1823
Do do rotary	Amos Thayer, jr.	New York	Mar. 6, 1823
Do do rotary	James Thomson	Pittsburg, Pa.	July 16, 1823
Do do rotary reacting	R. N. Powers	Cincinnati, O.	April 29, 1824
Do do rotary	Ralph Bulkley	New York	April 30, 1824
Do do rotary	Henry Lainhart, jr.	New Orleans	May 6, 1824
Do do rotary	Anthony Cooley	Le Roy, N. Y.	July 29, 1824
Do do rotary	John Gilbert	Do	Nov. 17, 1824
Do do rotary	I. Jennings	New York	Mar. 15, 1825
Do do rotary	Elisha Hale	Pomfret, N. Y.	May 20, 1825
Do do power wheel	John A. Wadsworth	Portsmouth, R. I.	Sept. 27, 1825
Do do	William Avery and Hiram Scoville	Pompey, N. Y.	Sept. 30, 1825
Do do rotary	J. R. Averill and F. Hoard	Rochester, N. Y.	Nov. 12, 1825
Do do rotary	Tim. Beach	Deer Creek, O.	Nov. 16, 1825
Do do rotary	George Deming	Niagara, N. Y.	Mar. 10, 1826
Do do rotary	S. Fairlamb and E. Bruce, jr.	New York	May 25, 1826
Do do rotary	Jos. Eve	London, Eng.	Aug. 16, 1826
Do do rotary	Elisha Bigelow	Baltimore, Md.	Nov. 6, 1826
Do do rotary	Elijah H. Read	Lancaster, Ky.	Nov. 10, 1826

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Steam generating (patented Nov. 18th, 1825) by anthracite coal	Stephen T. Conn D. Collings and J. D. Gallup	Washington, D. C. Wilkesbarre, Pa. Bath, N. Y. Albany, N. Y. New York	July 20, 1826 Oct. 12, 1826 Nov. 14, 1826 Jan. 19, 1827 Jan. 17, 1828
Do do	Daniel Phelps	-	
Do do	Levi Silliman	-	
Do do	R. R. Throckmorton	Boston, Mass.	
Do do	Eb. A. Lester	Do	
Do jack	John Bailey	New York	Mar. 10, 1828 Feb. 23, 1792
Do engine, curve tube water wheel	Elijah Bryan	-	April 8, 1829
Do shooting with	Samuel Morey	Oxford, N. H.	Jan. 19, 1819
Do syphonic machine	John Poole	-	Oct. 13, 1801
Do wheels, improvement on Rumsey's	Edward Rumsey, executor of James Amos Thayer, jr.	Kentucky Albany, N. Y.	Nov. 15, 1816 Aug. 8, 1821 Sept. 2, 1794
Do	Alex. Anderson	Pennsylvania	
Do	John Kincaid	Do	Nov. 25, 1794
Do	Michael Craft	Do	Oct. 28, 1801
Do	William Paine	Do	Aug. 24, 1802
Do	John Staples	Virginia	Dec. 15, 1802
Do	John Moffitt	New York	Feb. 1, 1803
Do	Lewis Geatty	Maryland	Aug. 4, 1803
Do	Leonard Beatty	New York	Jan. 19, 1804
Do	William Wigton	New Jersey	Jan. 30, 1804
Do	Israel Wood	Massachusetts	Feb. 21, 1804
Do	Edw. Richardson	Pennsylvania	Dec. 16, 1803

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Still	Ezra Talmage	Richmond, Va.	April 9, 1814
Do steam or stove	John Stone, Jr.	Worthington, Mass.	Dec. 8, 1814
Do	Rob. Gillespie	Seneca, N. Y.	Jan. 31, 1815
Do boiler and worm	Thomas Weston	Peacham, Vt.	Feb. 13, 1815
Do	Jos. White	Baltimore, Md.	Jan. 15, 1816
Do	Montg'y Stevens	New York	June 17, 1816
Do steam, and water boiler	Stephen Stitwell	Bainbridge, N. Y.	June 14, 1820
Do perpetual proof	Baltazar J. Kellenback	Philadelphia, Pa.	Aug. 6, 1821
Do worm	Do	Do	Oct. 17, 1822
Do steam	Chester Cooke	Paris, N. Y.	Jan. 11, 1823
Do	James G. Foley	Harrisburg, Pa.	Feb. 23, 1826
Do	Edm'd Capen	Boston, Mass.	Jan. 17, 1827
Do	Malcolm McGregor	New York	June 15, 1827
Do boilers, kettles, &c., setting	John Miller and B. Clemens	Clemmons, N. C.	June 24, 1828
Stone ware, burning without salt	Sanford S. Perry	Troy, N. Y.	Sept. 12, 1826
Stoves, cast iron	Robert Hettierick	Pennsylvania	June 11, 1793
Do	James McCallmont	—	Feb. 20, 1797
Do	Thomas Hirst	Pennsylyania	Mar. 11, 1797
Do	Caleb Wheaton	Massachusetts	Mar. 29, 1797
Do soapstone	William Payne	—	Dec. 10, 1797
Do	John W. Godfrey &	—	—
Do	William Lane	Pennsylvania	July 14, 1798
Do	Henry Abbott	—	Jan. 24, 1799
Do	Oliver Evans	Do	Jan. 16, 1800

Do	for drying grain	-	-	Feb. 12, 1801
Do	for heating rooms	-	-	May 1, 1801
Do	do	-	-	May 4, 1802
Do	or caboose, for cooking and distilling	-	-	Mar. 7, 1806
Do	manufacturing pipes for	-	-	May 21, 1806
Do	open	-	-	Boston, Mass.
Do	for heating rooms	-	-	Newburyport, Mass.
Do	do	-	-	Boston, Mass.
Do	rariifying air for warming rooms	-	-	Do
Do	pipes	-	-	Roxbury, Ct.
Do	kitchen	-	-	Newport, R. I.
Do	drum, cooking	-	-	Cheshire, N. H.
Do	steam, cooking	-	-	Fredericktown, Md.
Do	cooking	-	-	Weymouth, N. J.
Do	stone, fire proof	-	-	New York
Do	foot, stone heater	-	-	Do
Do	for heating water, and for washing clothes	-	-	Herkimer, N. Y.
Do	parlour, fireplace	-	-	New York
Do	open	-	-	Fitchburg, Mass.
Do	and boilers	-	-	Philadelphia, Pa.
Do	kitchen	-	-	Boston, Mass.
Do	boiling	-	-	Amherst, N. H.
Do	Lankester	-	-	Boston, Mass.
Do	Jos. Howe and Wm.	-	-	Do
Do	Gab. N. Phillips	-	-	Goshen, N. Y.
Do	John Spencer	-	-	Albany, N. Y.
Do	Alfred Janes	-	-	Hartford, Ct.
Do	Henry Abbott	-	-	Philadelphia, Pa.
			-	Nov. 25, 1812
			-	Feb. 6, 1813
			-	Feb. 8, 1813
			-	Mar. 1, 1813
			-	Mar. 30, 1813

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Stoves	George Warrall	Philadelphia, Pa.	Mar. 30, 1813
Do spiral	Robert Roy	Warwick, N. Y.	Nov. 13, 1813
Do eleven plate	Charles Postley	New York	Mar. 7, 1814
Do baking, boiling, and steaming	Eliphilet B. Coleman	New Haven, Ct.	May 13, 1814
Do family	Jos. Tuley	Frederick co., Va.	May 17, 1814
Do chimney	Charles Varlé	Fredericktown, Md.	July 1, 1814
Do	William T. James	Union Village, N. Y.	April 26, 1815
Do	Charles Postley	New York	April 26, 1815
Do	Aaron Lane	-	May 11, 1818
Do	Erastus Warner	-	Sept. 12, 1815
Do	John Graham	New York	Nov. 9, 1815
Do	Allen Greely	Oxford, Mass.	Dec. 23, 1815
Do	Comfort Barney	Warren, R. I.	Dec. 27, 1815
Do	James Wilson	Poughkeepsie, N. Y.	Mar. 9, 1816
Do	Chris'r Hoxie	Hudson, N. Y.	May 3, 1816
Do	Eliakim Cory	Milton, N. Y.	May 30, 1816
Do	John F. Van Sicler	Poughkeepsie, N. Y.	July 3, 1816
Do	Thos. & Isaac Power	Hudson, N. Y.	Aug. 31, 1816
Do	Henry F. Leibenauf	New York	Sept. 7, 1816
Do	James Ross	Elizabethtown, N. J.	Dec. 3, 1816
Do	George W. Brown	-	Dec. 6, 1816
Do	George Rogers	Northampton, Mass.	Dec. 18, 1816
Do	Anthony B. Martin	Hagerstown, Md.	Dec. 26, 1816
Do	Albertus Swain	Hudson, N. Y.	Feb. 1, 1817
Do	Jos. P. Simpson	New York	April 5, 1817

Do	fireplace and oven	Boston, Mass.	April 26, 1817
Do	do	Hartland, Vt.	Dec. 6, 1817
Do	do	Salisbury, Ct.	Mar. 18, 1818
Do	Burgess Allison	Philadelphia, Pa.	April 10, 1818
Do	Robert & John Mount	New York	April 11, 1818
Do	John Adams	Do	April 16, 1818
Do	James Lamb	Berlin, Ct.	July 17, 1818
Do	Aaron Lane	New York	Sept. 15, 1818
Do	John Cudlipp & Geo. Price	Baltimore, Md.	Nov. 18, 1818
Do	Samuel Morey	Oxford, N. H.	Jan. 20, 1819
Do	Palmer Jenkins	Hephorn, N. Y.	Feb. 6, 1819
Do	Israel Keyes	Putney, Vt.	Feb. 23, 1820
Do	John J. Giraud	Baltimore, Md.	April 19, 1820
Do	Nathan Winslow	Portland, Me.	May 3, 1820
Do	Richard Berrian and Francis Class	New York	Aug. 31, 1820
Do	Benjamin Simonds, jr.	Bedford, Mass.	Oct. 15, 1821
Do	Philologus Holley	Red Hook, N. Y.	Mar. 1, 1822
Do	John J. Pierce	Springfield, Mass.	Mar. 11, 1822
Do	William W. Weaver	Philadelphia, Pa.	April 16, 1822
Do	Lemuel Hitchcock	Weathersfield, Vt.	May 4, 1822
Do	James Barron	Norfolk, Va.	May 14, 1822
Do	B. Seymour & A. C. Battis	Utica, N. Y.	May 25, 1822
Do	Robert McMinn	Philadelphia, Pa.	June 24, 1822
Do	Philip S. Mingle	Do	Oct. 24, 1822
Do	Julia Plantau	Do	Nov. 4, 1822
Do	John Tasker	Do	Feb. 3, 1823
Do	Caleb Jones	Burlington, Vt.	April 5, 1823
Do	George J. Fougeray	Philadelphia, Pa.	Sept. 11, 1823
Do	for burning Lehigh coal		
Do	do		
Do	foot		
Do	pipe		
Do	and fireplaces		
Do	or fireplaces, circular, open		
Do	bottom boiler		
Do	cooking		
Do	open		
Do	pipe		
Do	and fireplaces		
Do	or fireplaces, circular, open		
Do	bottom boiler		
Do	cooking		
Do	open		
Do	pipe		
Do	and fireplaces		
Do	or fireplaces, circular, open		
Do	for burning Lehigh coal		
Do	do		
Do	foot		
Do	pipe		
Do	for burning stone coal		

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.		NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Stoves		Louis Gourjou	Philadelphia, Pa.	Sept. 22, 1823
Do cooking		John Conant	Brandon, Vt.	Dec. 13, 1823
Do Columbian		Joshua Talcot & John McCulloch	Smyrna, N. Y. New York	Jan. 26, 1824 Mar. 13, 1824
Do	Franklin and cooking	James Wilson	Do	April 23, 1824
Do	box hearths	William T. James	Salisbury, Mass.	Feb. 16, 1825
Do pipes		John Colby	Oswego, N. Y.	May 18, 1825
Do	cooking and Franklin united	Thomas Wentworth	Philadelphia, Pa.	June 16, 1825
Do	for Lehigh coal	John Lovatt	Hagerstown, Md.	Feb. 1, 1826
Do	cooking	David Little	Philadelphia, Pa.	Mar. 24, 1827
Do	do domestic	Jos. R. Page	Randolph, Mass.	May 18, 1827
Do	air funnel	Hiram Wales	New York	June 2, 1827
Do	foot, cast iron	George W. Robinson	Athens, N. Y.	Jan. 26, 1828
Do	cooking	Robert C. Rouse	Baltimore, Md.	Feb. 10, 1828
Do	chimneys, furnaces, and steam engines	John J. Giraud	Pomfret, N. Y.	Mar. 3, 1828
Do	cooking	D. G. Garnsey	Claremont, N. H.	May 9, 1828
Do	do	Abm. Fisher	Watertown, N. Y.	June 16, 1828
Do	Franklin	Wm. Cowan	Philadelphia, Pa.	Feb. 16, 1829
Do	premium railway cooking	Peregrine Williamson	Louisville, Ky.	June 11, 1829
Do	cooking	Allen J. Barnitt	New York	June 11, 1829
Do	do	Wm. Naylor	Do	June 23, 1829
Do	for Lehigh coal	C. Shemerhorn	Sandy Hill, N. Y.	July 17, 1829
Do	do	Ez. E. Bennet	Claremont, N. H.	Aug. 5, 1829
Do	double furnace	Josiah Richards	Johnstown, N. Y.	Aug. 25, 1829
Do	do	Oliver Davison		

Do	and Franklin	Geo. Richards	Providence, R. I.	Sept. 9, 1829
Do	do	Joseph Hurd, jr.	Boston, Mass.	Nov. 10, 1828
Do	do	William Davis and R. W. Lord	New York	Nov. 23, 1829
Do	anthracite coal	Jona. Williams, jr.	Philadelphia, Pa.	Mar. 19, 1793
Sugar, claying moulds	making and refining	Antoine Boucherie	Do	Jan. 8, 1808
Do	moulds for refining	Mervin Merrill	New York	Oct. 25, 1816
Do	refining	Bernard E. Verjon	Washington, D. C.	April 26, 1816
Do	cane, machine for grinding	John G. Breithler	New Orleans	June 13, 1818
Do	making from wheat, rye, &c.	James Wisehart	Wayne co., Ind.	May 25, 1819
Do	manufacturing	Henry Fry	Harrisburg, N. Y.	April 6, 1820
Do	refining, double boiler and other apparatus for	Wm. A. Archbald	New York	May 29, 1828
Do	do filtering apparatus	Do	Do	May 29, 1828
Do	manufacuring from cane juice	Eb. A. Lester	Boston, Mass.	Sept. 10, 1829
'Finder box	-	Ira Ives	Farrington, Ct.	Oct. 25, 1816
Torpedo	-	Eb. Ford	Baltimore, Md.	April 14, 1814
Tubes for glass lamps	-	Deming Jarves	Cambridge, Mass.	Feb. 2, 1822
Valve, safety, alarm or reverse	-	Wm. S. Gillett	Lower 3 Runs, S. C.	Nov. 18, 1825
Do	do chimney, smoke, and	Jos. H. Schreiner	Philadelphia, Pa.	July 31, 1827
Do	revolving, for steam boilers	Elam Young	Tate township, O.	Sept. 10, 1829
Vapor bath, portable	-	Charles W. Peale	Pennsylvania	June 16, 1801
Do	condenser	Wm. Howe	Do	April 6, 1803
Vaporous alembic	-	Charles Merot	Philadelphia, Pa.	Nov. 5, 1818
Victualler, economical, improvement on the Peripurist	-	Benj. C. Burdett	New York	Aug. 4, 1827
Vinegar and cider from offals of distilleries	-	Wm. Richardson	Kingston, N. Y.	Sept. 26, 1816
Warming rooms	-	Barzillai Russell	Hartford, Ct.	Mar. 4, 1811
Do	do by rarified air	Daniel Pettibone	Philadelphia, Pa.	May 12, 1812
Do	houses, machine called the atmospherical house	Robert Anlesy	Do	April 27, 1814
warmer and smoke driver	-	Charles Harris	Boston, Mass.	May 15, 1815
rooms, iron back log for	-	Wm. Baker	Springfield, N. Y.	Sept. 9, 1825

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Warming rooms	A. McAllester and John Iggett	Salem, N. Y.	Dec. 15, 1827
Washing machine for breweries and distilleries	Leonard Beatty	Boston, Mass.	May 17, 1816
Water burner, American	John L. Sullivan	Oxford, N. H.	Dec. 11, 1818
Do	Samuel Morey	Genesee, N. Y.	Dec. 19, 1818
Whiskey, manufacturing	Silas Smith	Philadelphia, Pa.	May 23, 1815
Worm, boiler	James Truman	-	June 24, 1809
Worm, condensing, tin, sheet copper	John Taylor	Virginia	June 13, 1795

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Anderson, Alexander -	Pennsylvania	Steam still	Sept. 2, 1794
Abbott, Henry -	Do	Stove for coal	Jan. 24, 1799
Anderson, Alexander -	Do	Brewing from Indian corn	Jan. 26, 1801
Do	Do	Distilling condenser	Jan. 26, 1801
Abbott, Henry -	Do	Stove	May 4, 1802
Allison, Burgess -	New Jersey	Spirits, rectifying	May 12, 1802
Do	Do	Do do	May 17, 1803
Alden, Timothy, jr. -	New Hampshire	Salt, manufacturing	May 25, 1803

Ashbridge, Wm.	Pennsylvania	Caboose, iron -	June 28, 1801
Abraham, James	Middlesex, N. J.	Kiln for drying grain -	Dec. 20, 1805
Arnold, Thomas	-	Evaporation -	Mar. 5, 1806
Adams, Stedman	Hartford, Ct.	Stills and rotary steam engine -	Nov. 21, 1808
Allison, Burgess	Philadelphia, Pa.	Distilling spirits from cornstalks -	July 6, 1809
Applegate, Sam'l, Ths.	Do	Heat applied to fluids -	Nov. 22, 1809
Howard, and Pere-	grine H. Wharton	Condensing box for wooden stills -	Mar. 27, 1812
Adams, Rufus W.	Marlborough, Vt.	Steam engine -	Aug. 21, 1812
Anderson, Alex'r	Philadelphia -	Stove, boiling -	Mar. 30, 1813
Abbett, Henry	Do	Salt, furnace and boilers for manufacturing	May 29, 1813
Anthony, Samuel	Lynchburg, Va.	Heating water for tanning in cold weather	June 2, 1813
Atwater, Caleb	Genoa, N. Y.	Tub, improvement in his condensing -	Oct. 27, 1813
Anderson, Alex'r	Philadelphia -	Matchlights and boxes -	Mar. 26, 1814
Allison, Richard, and	Burlington, N. J.	Distilling -	April 19, 1814
N. S. Allison	Pennsborough, Pa.	Atmospherical house warmer and smoke driver	April 27, 1814
Alber, John W.	Philadelphia, Pa.	Salt boilers and making salt	Nov. 5, 1814
Anlesly, Robert	Salina, N. Y.	Smoke, consumption of	Mar. 5, 1818
Averill, Isaac W.	Wheeling co., Va.	Stove -	April 10, 1818
Acoff, John	Philadelphia -	Stove, cooking	April 16, 1818
Allison, Burgess	New York -	Kiln for drying all kinds of grain	Nov. 7, 1822
Atams, John	Fleming co., Ky.	Steam boiler, cast iron	May 27, 1824
Andrews, Robert	Manchester, N. Y.	Cooking machine, portable	Feb. 18, 1825
Averill, John R.	Philadelphia	Distilling by steam	May 13, 1825
Asher, David	Pompey, N. Y.	Do	Sept. 30, 1825
Avery, Wm.	-	Steam engine -	-
Avery, William, and	-	Steam engine, rotary -	Nov. 12, 1829
Hiram Leeville	-	Distilling -	Aug. 30, 1827
Averill, J. R., and F.	-	-	-
Hoard	-	-	-
Aikin, John M.	Rochester, N. Y.	-	-
	Philadelphia	-	-

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES	RESIDENCE	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Allaire, James P.	New York	Boilers for steam engines	May 14, 1828
Archbald, Wm. A.	Do	Boiler for oil and refining sugar	May 29, 1828
Do	Do	Sugar refining, double boiler and other apparatus	May 29, 1828
Do	Do	Filtrating apparatus for	May 29, 1828
Adams, Nathaniel, and Aaron Noyes	Newburg, Ky.	Brick, burning	Dec. 28, 1829
Bailey, John	Boston, Mass.	Steam jack	Feb. 23, 1792
Bachus, Elijah	Virginia	Boiler for steam engine	May 31, 1796
Butler, Fred.	Connecticut	Cooking	Aug. 22, 1800
Bedwell, Thos., and Ben. Henfrey	Pennsylvania	Evaporator	Feb. 12, 1801
Boureau, Nich.	Georgia	Steam kitchen for ships	Aug. 30, 1802
Briggs, Samuel	Georgia	Steam engine	Oct. 9, 1802
Biddis, John, & Leml.	New York	Aleohol, distilling	June 4, 1803
J. Kilborn	-	Distilling by steam	July 8, 1803
Brown, Samuel, Edw. West and Thos. West	New York	Still or boiler	Jan. 19, 1804
Beatty, Leonard	Philadelphia	Sugar, making and refining	Jan. 8, 1808
Boucherie, Antoine	-	-	-
Barnum, Eli, & Ben. Brooks	New Marlboro', Mass.	Distilling or boiling water	Mar. 21, 1808
Do	Do	Do	July 13, 1808
Bennitt, Isaac	Newtown, Ct.	Still tub	Dec. 12, 1808
Bolton, Samuel	Philadelphia	Liquids, heating machine	Jan. 16, 1809

Boucherie, Antoine Do	Do	Distilling apparatus Gin cordial	Jan. 30, 1809 Jan. 31, 1809
Barnitt, John Bolton, Samuel Bennett, John M. Bernard, Phares Do	Upper Providence, Pa. Philadelphia, Pa. Middletown, Ct. Whitestown, N. Y. Do	Ovens Pipe or grate boiler or heater Distilling by steam Still, steam, and water boiler Do	Mar. 3, 1809 July 7, 1809 May 1, 1810 Nov. 17, 1810 Jan. 16, 1811
Bernard, Phares, and Tim. Loper Bacon, Samuel Blanche, Noel Bouis, John Battle, Mellen Baron, Wm. A. Bouis, John Do Bates, John Bronaugh, John W., & Jesse Talbot Briggs, Saml., & And. Steele Belden, Thomas Brush, John C. Barnhurst, Thomas, & John & Wm. Walker Bruff, John Brown, Enos Bartholomew, Erastus, and Wm. Church Barney, Comfort Burrall, Edw.	Do Do Lanesborough, Mass. New York Baltimore, Md. Herkimer co., N. Y. New York Baltimore, Md. Do Hartford, Ct. Georgetown, D. C. Baton Rouge, La. Hartford, Ct. Washington City, D. C. Philadelphia Baltimore Oneida co., N. Y. Boston, Mass. Warren, R. I. Canaan, Ct.	Steam pump Still, steam Condensation of vapors in distilling Steam cooking apparatus Revolving steam engines and propelling boats by poles Humidifiers Oven for baking Caboose Distilling Refrigerator Engine, steam Distilling, heating liquor, &c., for Fireplaces, chimneys, &c. Furnace for melting and refining metals Chimneys, machine for cleaning Distilling, generating steam for Fireplace, defiance Stove Heat of a furnace applied to steam engines, spare	Jan. 16, 1811 Feb. 9, 1811 Mar. 2, 1811 Jan. 6, 1812 Mar. 27, 1812 Sept. 10, 1812 Dec. 30, 1812 Dec. 3, 1812 Jan. 26, 1813 Mar. 16, 1813 May 29, 1813 Aug. 18, 1813 Jan. 28, 1814 May 4, 1814 Dec. 16, 1814 Jan. 23, 1815 Aug. 19, 1815 Dec. 27, 1815 Jan. 31, 1816

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS.—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Black, Alex.	Barnstable, Mass.	Salt, apparatus for boiling and making	April 4, 1816
Burnt, Enoch	Elizabethtown, N. J.	Steam engine	May 12, 1816
Beatty, Leonard	-	Washing machine for breweries and distilleries	May 17, 1816
Burt, Enoch	Elizabethtown, N. J.	Steam engine	June 25, 1816
Blood, Amos	Boston, Mass.	Distilling apparatus	July 16, 1816
Brown, George W.	New Orleans	Stove, Franklin	Dec. 6, 1816
Briggs, Samuel	Barnstable, Mass.	Steam applied to move machinery	May 28, 1817
Black, Alex.	New Orleans	Lamps	Oct. 3, 1817
Breithner, John G.	Green co., N. Y.	Sugar cane machine for grinding	June 13, 1818
Barker, Thomas E.	New York	Stove boiler, upright	Feb. 19, 1819
Baltry, Antoine	-	Steam engine, rotary	May 26, 1819
Brush, John C.	Washington, D. C.	Fireplaces, close and open	Aug. 19, 1819
Berrian, Richard, and Francis Class	New York	Stove or fireplace, circular open	Aug. 31, 1820
Bulkey, Ralph	Do	Fremen, machine for protecting	Mar. 29, 1821
Blaikie, Rob.	Do	Distilling	April 27, 1821
Baker, Stephen	Do	Steam boiler	Dec. 13, 1821
Barron, James	Norfolk	Stove	May 14, 1822
Benson, Mathew	Cincinnati, Ohio	Scraper, chimney	May 15, 1822
Berrien, Daniel	New York	Chimney fire extinguisher	Aug. 21, 1823
Belts, H., and J. A. McLean	Norwalk, Ct.	Steam generator	Dec. 24, 1823
Brown, Samuel	London, England	Gas engine without steam	Mar. 2, 1824
Bulkey, Ralph	New York	Boiler to steam engine	Mar. 25, 1824
Do	-	Boiler, safety steam	April 8, 1824

	Steam engine -	April 30, 1824
	Steam, generating	Sept. 13, 1824
	Steam for high pressure	May 1, 1824
	Fireplaces and chimneys	April 7, 1825
	Salt, manufacturing by steam	June 25, 1825
	Salt, manufacturing from sea water or springs	July 20, 1825
	Warming rooms -	Sept. 9, 1825
	Lightning rods, securing	Sept. 24, 1825
	Steam engine, circulating	Nov. 16, 1825
	Steam, generating	Nov. 26, 1825
	Kiln, covering	May 10, 1826
	Refrigerators for distilleries	Jan. 6, 1826
	Kitchen, summary	Jan. 19, 1826
	Gauge for steam boilers, sight	Mar. 24, 1826
	Steam engine -	Nov. 6, 1826
	Fireplaces, furnaces, &c.	Dec. 29, 1826
	Boilers for anthracite coal	Feb. 7, 1827
	Salt, manufacturing	Feb. 21, 1827
	Fermenting and distilling spirits	July 20, 1827
	Victualler, improvement on the Peripurist	Aug. 4, 1827
	Escape heat of the engine, application of	Oct. 30, 1827
	Steam engine -	Jan. 29, 1828
	Cooking apparatus	Feb. 15, 1828
	Distilling by steam	April 5, 1828
	Engine, rotary steam	Oct. 11, 1828
	Heat by management of combustion, production	Nov. 8, 1828
	Furnace and oven, portable cooking	Jan. 30, 1829
	Pan, salt water	Mar. 23, 1829
Do	Lexington, Ky.	
Buchanan, Jos.	Portsmouth, R. I.	
Babcock, John	Washington co., Md.	
Blood, Cyrus	Geddes, N. Y.	
Barlow, Benj.	Smithfield, R. I.	
Barker, William	Springfield, N. Y.	
Barker, William	Providence, R. I.	
Brown, John, and G.	Deer Creek, Ohio	
W. Robenson	Wilmington, Del.	
Beach, Timothy	Wellsbury, Va.	
Beltz, Mahlon	Baltimore -	
Bakewell, Saml. R.	Baltimore -	
Bodman, L. C. & J.	Baltimore -	
Bouis, John	Kingston, Pa.	
Barker, William	Baltimore -	
Bigelow, Elisha	Baltimore -	
Boott, J. W., & Wm.	Lynn -	
	Boston, Mass.	
	Baltimore, Md.	
	Salina, N. Y.	
	Millersburg, Pa.	
	New York -	
	Salina, N. Y.	
	New York -	
	Kingsbury, N. Y.	
	Strasburg town'p, Pa.	
	Providence, R. I.	
	New York -	
	Dover, N. H.	
	Zanesville, Ohio -	
	J. T. Fracker	

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Bryan, Elijah Barnett, Allin J. Browne, Alex.	New York Louisville, Ky. Salina, N. Y.	Curve tube water wheel for steam engines Stove, cooking Salt by application of escape heat of steam engines, manufacturing	April 8, 1829 June 11, 1829
Bennet, Ez. E. Bomeisler, Louis Battle, Mellen Bodman, L. C. & P. Cruse, Englehart Cooley, David, & Gab. N. Phillips Craft, Michael Calender, Elisha Coppinger, Joseph Chamberlain, Wm. Cooper, Charles E. Cook, Lyman Curtis, Junia, Royal Yeaman Carrier, Omri Cabell, John J. Chevens, Henry Clark, Ed. Coleman, Eliphilet B. Cabell, John J.	Sandy Hill, N. Y. Philadelphia Albany, N. Y. Baltimore, Md. Baltimore, Md. New York Pennsylvania Boston, Mass. Beaufort, S. C. Vermont Albany, N. Y. Whitestown, N. Y. Plymouth, N. Y. Westfield, Mass. Enfield, Ct. Lynchburg, Va. New York Philadelphia New Haven, Ct. Lynchburg, Va.	Stove, cooking Lime kiln Steam engines Distilling cordials Steam engine, improvement on Savary's Chimneys Still, construction of Lightning rods Distilling in east iron stills Distilling apparatus Fireplaces Condenser Steam engine Distilling Salt, apparatus for boiling Bathing machine, floating Lamp Stove, baking, boiling, and steaming Salt, manufacturing	June 11, 1829 July 17, 1829 Sept. 10, 1829 Nov. 6, 1829 Sept. 30, 1825 Aug. 26, 1791 Aug. 25, 1800 Oct. 28, 1801 Oct. 3, 1808 Nov. 21, 1809 Mar. 17, 1810 June 27, 1810 Mar. 26, 1811 Feb. 8, 1812 Nov. 2, 1812 May 28, 1813 July 13, 1813 April 27, 1814 May 13, 1814 June 19, 1814

Curtis, Junia	Baltimore, Md.	Steam engine	Aug. 8, 1815
Cluff, Mat.	Norfolk, Va.	Do	Sept. 1, 1815
Carry, Her.	Brooklyn, N. Y.	Distilling by steam	Feb. 16, 1816
Cory, Eliakim	Milton, N. Y.	Stove	May 30, 1816
Carver, James	Philadelphia, Pa.	Bath, veterinary, ventilated	Aug. 8, 1817
Church, William	Baltimore, Md.	Steam engine	July 11, 1818
Cudlipp, John, & Geo. Price	Do	Stove pipes	Nov. 18, 1818
Case, James	New York	Distilling	Mar. 18, 1819
Cooley, David, & Gab. N. Phillips	Do	Chimneys	Aug. 25, 1800
Cutler, David	Leonard co., O.	Distilling	Feb. 20, 1821
Crey, Fred.	Baltimore	Chimneys smoking, preventing	Oct. 8, 1821
Cozzens, Fred. S.	New York	Distilling	July 27, 1822
Collins, Samuel	Springfield, Mass.	Forge, hollow fire	Sept. 11, 1822
Colden, Cadw. D.	New York	Salt, manufacturing	Dec. 14, 1822
Cornelius, Chris.	Philadelphia, Pa.	Lamps, light-house	Dec. 28, 1822
Cook, Chester	Paris, N. Y.	Still worn	Jan. 11, 1823
Conant, John	Brandon, Vt.	Cooking stove	Dec. 13, 1823
Carpenter, J., & J. Rose	New York	Distilling	Jan. 29, 1824
Crutchfield, Robert	Botetourt co., Va.	Brick, burning	Feb. 7, 1824
Chase, Samuel	Williamsport, Pa.	Chimneys cured, smoky	July 26, 1824
Cooley, Anth'y	Le Roy, N. Y.	Steam engine, rotary	July 29, 1824
Conn, Stephen T.	Washington, D. C.	Steam, generating and applying	Sept. 29, 1824
Cooper, Peter	New York	Salt, making	Dec. 24, 1824
Colley, John	Salisbury, Mass.	Stove pipes	Feb. 16, 1825
Conn, Stephen T.	New York	Steam, generating and applying	Nov. 29, 1825
Do	Georgetown, D. C.	Salt by steam, manufacturing	July 12, 1826
Do	Washington, D. C.	Steam generator, (patented November 18, 1825)	July 20, 1826
Collins, D., and J. D. Gallup	Wilkesbarre, Pa.	Steam, generating by anthracite coal	Oct. 12, 1826

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEE.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Church, William	Boston, Mass.	Furnace for anthracite coal	Nov. 20, 1826
Caben, Edm'd	Do	Still	Jan. 17, 1827
Cooper, John M.	Guildhall, Vt.	Piston, rotative	July 16, 1827
Cornell, William	Brooklyn, N. Y.	Liquors, determining the strength of	Aug. 20, 1827
Cocke, William J.	Surry co., Va.	Distilling	Oct. 30, 1827
Do	Cabin Point, Va.	Do	Feb. 4, 1828
Cooper, Peter	New York	Steam engine, changing the rectilineal to rotary motion in	April 28, 1828
Cowan, William	Watertown, N. Y.	Stove, Franklin	June 16, 1828
Cutlin, John	Cincinnati, O.	Engine, hydraulic steam	June 11, 1829
Coffin, Frs. & Charles C. K. Beach	Boston, Mass.	Steam boilers	June 29, 1829
Carter, Valentine	Georgetown, D. C.	Steam engine, avoiding the dead point in the	Aug. 3, 1829
Cooke, William	Southport, N. Y.	Distilling	Dec. 7, 1829
Deneale, James	Virginia	Kiln for drying grain	July 19, 1800
Do	Do	Do	July 10, 1800
Dearborn, Benj.	Boston, Mass.	Candlestick	Oct. 29, 1804
Dickey, Samuel	Oxford, Pa.	Stove	Mar. 7, 1806
Deneale, James	Dumfries, Va.	Oven, perpetual	Dec. 4, 1806
Dimond, John	Philadelphia, Pa.	Distillation	Dec. 28, 1808
Day, Augustus	Bordentown, N. J.	Combustion and explosion, a new power	Jan. 19, 1811
Dunlap, Andrew	Boston, Mass.	Distilling	May 3, 1811
Decker, Jac.	Green, N. Y.	Stills and boilers	Sept. 2, 1811
Dod, Daniel	New York	Steam engine	Nov. 29, 1811
Dudley, Ambrose	King Williamco., V.a.	Salt, manufacturing	Mar. 31, 1812
Dod, Daniel	Elizabethtown, N. J.	Steam engine	May 12, 1812

Dowers, John, Jr.	Philadelphia, Pa.	Steam engines and steam boats	April 23, 1814
Deering, Richard	-	Salt, manufacturing, boring wells, and pumping water	May 28, 1814
Dewey, David	Sullivan, N. Y.	Distilling by steam	July 5, 1814
Dezean, William	Philadelphia, Pa.	Brewing spruce beer	June 13, 1815
Demand, Jos., & Stinson Demund	New Jersey -	Spirits from corn and corn cobs	Jan. 17, 1816
Detroitsmonts, L. D.	New York -	Chimney's, stoves, and fire places	April 5, 1817
Deverin, John, and J. D. Isabelle	Lexington, Ky.	Bath, steam	July 6, 1818
Davis, Phineas	York, Pa.	Engine, vibrating steam	Feb. 17, 1821
Delano, Obed.	Utica, N. Y.	Chimney and fire place	Mar. 3, 1821
Duke, James	New York -	Lamps	Aug. 15, 1821
Davis, David St. L.	Hibernia, Tenn.	Kiln for drying malt by steam	Aug. 30, 1822
Dixon, Joseph, Jr.	Philadelphia	Steam, generating	April 13, 1824
Douglass, John C.	Troy, N. Y.	Distilling apparatus	Nov. 26, 1825
Duff, John	Washington, D. C.	Kiln, brick	Oct. 31, 1825
Deming, Geo.	Bermington, Vt.	Steam engine	Mar. 10, 1826
Doolittle, Isaac	Niagara, N. Y.	Boiler, supplying a uniform quantity of steam to a	June 1, 1827
Dow, Samuel	Bermington, Vt.	Chimney cleaner	June 1, 1829
Davison, Oliver	Elizabethborough, N. J.	Stove, air furnace oven	Aug. 25, 1829
Doolittle, Anth'y	Johnstown, N. Y.	Distilling maize	Nov. 16, 1829
Davis, William, & R. W. Lord	Ann Harbor, M. Ter.		
Doolittle, Isaac	New York -	Stove, anthracite coal cooking	Nov. 23, 1829
Evans, Oliver	Bennington, Vt.	Charcoal, manufacturing	Dec. 14, 1829
Ellicot, David	Pennslyvania	Stoves and grates	Jan. 16, 1800
Ellicott, Benj.	Maryland	Stove for drying grain	May 1, 1801
Evans, Oliver	Pennslyvania	Salt, manufacturing	May 12, 1802
Eggleston, Benj., jr.	Philadelphia, Pa.	Steam engine	Feb. 14, 1804
Eaton, William	Princeton, N. Y.	Boiling, applicable to distilling, &c., method of	May 27, 1805
	Baltimore, Md.	Boiler, and rectifying still, (former patented to Tim. Kirk, the latter to William Chamberlain)	Oct. 29, 1810

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Enter, Lewis, and W. Zigler	Georgetown, D. C.	Light from stone coal gas	Sept. 28, 1815
Eve, Jos.	Augusta, Ga.	Steam engine	May 28, 1818
Everard, Frs. A.	New York	Chimney, machine for sweeping	May 28, 1818
Edmondson, Samuel S.	Do	Chimney sweeping machine	Nov. 8, 1820
Elder, William	New Brunswick, N. J.	Fermenting apple cider	Aug. 21, 1822
Ewbank, Thomas	New York	Pipes, tin plate lead, for still	May 9, 1823
Eve, Jos.	London, Eng.	Steam enginery	Aug. 16, 1826
Embree, Davis	New Richmond, O.	Distilling by using the 'scape steam of a steam engine	Dec. 3, 1827
Fennel, James	Pennsylvania	Salt, manufacturing	Sept. 24, 1794
Fales, Charles	Worcester, Mass.	Charcoal from peat	Feb. 11, 1807
Fisher, Abm.		Fireplace with flat funnel	Feb. 19, 1807
Fales, James		Stoves	Feb. 22, 1809
French, Daniel	New York	Steam engine for boats, mills, &c.	Oct. 12, 1809
Flagg, Josiah, and Jo- siah Flagg, Jr.	Boston, Mass.	Lamp reflector, elastic	April 17, 1810
Fulton, Robert	New York	Steam engine for boats and vessels	Feb. 9, 1811
Freeman, Erastus V.	Yorke, Pa.	Gin making	April 10, 1811
Fisher, Charles F.		Still	July 12, 1813
Foster, Wm., jr., and Leonard Foster	Boston, Mass.	Lamp, double reflecting	Aug. 28, 1813
Ford, Eb.	Baltimore	Torpedo	April 14, 1814
Fairlamb, Samuel	Marietta, O.	Steam engine	Oct. 24, 1816
Field, Henry	Camillus, N. Y.	Distilling apparatus	June 17, 1819
Fry, Henry	Harrisburg, N. Y.	Sugar, manufacturing	April 6, 1820

Fisher, Henry F.	Philadelphia	Sept. 12, 1821	Distilling apparatus
Farnham, Dudley L.	Albany, N. Y.	Feb. 19, 1823	Steam engine, rotary
Fougeray, Geo. J.	Philadelphia	Sept. 11, 1823	Stove for burning stone coal
Foley, James G.	Harrisburg, Pa.	Feb. 23,	Still, steam
Fairlamb, S., and E.	New York	May 25, 1826	Steam engine, rotary
Bruce, Jr.	Madison, O.	Aug. 2, 1826	Steam to blast furnaces
Foss, Cotton	New York	May 22, 1827	Blower, coal grate
Fuller, R. and T. Thomas	Philadelphia	April 5, 1828	Lamp, safety compass
Freinour, Joseph, and Joseph Freinour, Jr.	Claremont, N. H.	May 9, 1828	Stove, cooking
Fisher, Abm.	New York	July 8, 1828	Engines, attaching tubes to steam
Freeborn, Gideon	Philadelphia	Aug. 1, 1828	Lamp, signal
Freinour, J., and J. Freinour, Jr.	New York	June 11, 1829	Boilers for steam, flat
Fanshaw, David, and H. Hanks	Hartford, Ct.	July 10, 1829	Heater, cylindrical air
Fowler, Charles	Boston, Mass.	Jan. 31, 1827	Lamp for boiling water
Fessenden, Thos. G.	Philadelphia	July 14, 1798	Stove
Godfrey, John W. and W. Lane	Maryland	Aug. 4, 1803	Still
Beauty, Lewis	Baltimore, Md.	April 18, 1804	Steam bath still, double
Girard, J. J.	New York	April 1, 1807	Salt, making
Green, Timothy	Newburyport, Mass.	Feb. 1, 1808	Stove, open
Gould, John F.	Do	Mar. 13, 1808	Chimneys
Gridley, Giles	Do	Mar. 14, 1808	Fireplace
Do	New Haven, Ct.	Dec. 19, 1808	Boiler for distilling, double
Gunn, Enos	Seneca co., N. Y.	April 2, 1810	Still and evaporator, perpetual
Gillespie, Robert	Saugerties, Va.	June 13, 1810	Distilling
Garber, Michael, sen.	Fredericktown, Md.	Nov. 6, 1810	Stoves
Graham, Augustus			

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	BESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Graham, Augustus	Fredericktown, Md.	Fireplaces, grated	Nov. 24, 1810
Giraud, John J.	Baltimore, Md.	Still, perpetual, double	Dec. 22, 1810
Gamble, William	Washington City, D.C.	Distillery and kitchen ranges	Mar. 18, 1811
Giraud, John J.	Baltimore, Md.	Still, perpetual steam	May 15, 1811
Do	Do	Distilling	June 14, 1811
Gorsuch, Wm.	Williamsport, Pa.	Lime kiln	Aug. 17, 1811
Gaston, Charles	Baltimore, Md.	Case for kettles, boilers, stills, &c., metallic	Jan. 31, 1812
Giraud, John J.	Pultney, Vt.	Still	June 26, 1813
Guerney, Chauncey	Baltimore, Md.	Fireplace and stove	July 7, 1813
Giraud, John J.	Lancaster, Pa.	Still and distilling, wooden	Aug. 3, 1814
Gibbs, Abm.	Connellsville, Pa.	Stills and furnaces, setting	Aug. 31, 1813
Gregg, Thomas	Baltimore	Furnace for stone coal, air	Mar. 16, 1814
Giraud, John J.	Seneca, N. Y.	Still, perpetual steam	Mar. 24, 1814
Gillespie, Robert	New York	Still	Jan. 31, 1815
Graham, John	Oxford, Mass.	Stove, economical	Nov. 9, 1815
Greely, Allen	Paris, N. Y.	Stove, foot	Dec. 23, 1815
Goodsell, Naman	Philadelphia, Pa.	Distilling apparatus	June 13, 1816
Griffiths, Elijah	Baltimore	Fireplaces	Mar. 6, 1820
Giraud, John J.	New York	Stoves, stills, and boilers	April 19, 1820
Graham, Charles M.	Brandywine, Pa.	Grates, fire	Nov. 10, 1821
Griemer, Philip	Halifax township, Pa.	Distilling	April 17, 1822
Geithansen, Elias	Copenhagen, N. Y.	Distilling by steam	Jan. 14, 1823
Gillet, Lewis	Philadelphia	Forge and furnace backs	Aug. 21, 1823
Gourjon, Lewis	Do	Stove	Sep. 22, 1823
Glendening, Andrew	Butler co., Pa.	Boiler, universal	Sep. 25, 1823

Gilbert, John.	Le Roy, N. Y.	Nov. 17, 1824
Gerard, Daniel	Clay co., Ky.	Jan. 28, 1825
Guiteau, Calvin	Geddes, N. Y.	Sep. 9, 1825
Griffiths, Philo N.	Grange, N. J.	Sep. 26, 1825
Gillet, Wm. L.	Lower 3 Runs, S. C.	Nov. 18, 1825
Giraud, J. J.	Baltimore	Feb. 10, 1828
Garrison, D. G.	Pomfret, N. Y.	Mar. 3, 1828
Hetterick, Robert	Pennsylvania	June 11, 1795
Hirst, Thomas	Do	Mar. 11, 1797
Hall, Fitch	New York	April 17, 1797
Henderson, Wm.	Connecticut	Feb. 12, 1801
Henry, Benjamin	Pennsylvania	April 16, 1802
Do	Do	Mar. 2, 1802
Hutter, Chris. H.	Do	Feb. 11, 1803
Hunter, George	Do	Mar. 24, 1803
How, Wm.	Do	April 6, 1803
Hetterick, Robert	Fireplace, Columbian	June 30, 1803
Heistand, Abm.	Distilling apparatus	Nov. 27, 1805
Hardenbrook, Abel W.	Steam engines, swivel screw for	Feb. 10, 1807
Hawkins, Jos.	Lamps, and liquids to be burnt therein	April 21, 1810
Hackley, Philo M.	Still and water boiler, perpetual steam	Jan. 11, 1811
Hughtston, John	Kiln for drying grain	July 18, 1811
Hunt, Charles	Grates	Mar. 17, 1812
Howe, Charles, and	Stoves, open	Nov. 25, 1812
Wm. Lankester	Lamp, nurse	Dec. 31, 1812
Howe, Wm.	Fireplace, and stove	June 25, 1813
Haskell, Ezra	Bath vessel, warm	Oct. 4, 1813
Harrington, Daniel	Boiler, cylindrical	Oct. 9, 1813
Hackley, Philo M.	Distilling apparatus	Dec. 31, 1813
Hoffman, Isaac	Salt, manufacturing	April 8, 1814
Hord, Thomas	Caroline co., Va.	

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Hawkins, Wm. M. Hall, Benj.	King & Queen co., Va. New Haven, Ct.	Salt water evaporator Still and condenser	April 23, 1814 May 13, 1814
Hawkins, Wm. & J. D. Hart, Naphtali	Raleigh, N. C. Easton, Pa.	Salt, apparatus for making Distilling	May 26, 1814 Oct. 29, 1814
Hackley, Philo M. Harris, Charles	Herkimer, N. Y. Boston, Mass.	Boiler and furnace united Back log for warming rooms, iron	Jan. 23, 1815 May 15, 1815
Hall, James	Elizabethtown, N. J. Hudson, N. Y.	Spirits from lime, ardent Kiln for earthen ware	Nov. 22, 1815 Oct. 21, 1815
Hassell, James	New York	Stoves, cooking, and other	May 3, 1816
Hoxie, Chris.	Philadelphia	Steam, generating	June 14, 1816
Hawkins, Joseph	Somerset, Me.	Evaporator and steam engine	July 26, 1816
Heath, David	Jenkerstown, Pa.	Steam engine	Aug. 22, 1816
Hilton, John	Virginia	Lime kiln	Jan. 22, 1817
Harper, George	Princess Anne, Va.	Steam engine	Aug. 27, 1817
Heavin, John	New York	Salt, manufacturing	Nov. 14, 1817
Hall, Everard	Baltimore	Oven, perpetual	Jan. 8, 1818
Hunter, Wm. T.	Springfield, N. Y.	Chimneys, machine for sweeping	July 12, 1817
Hunt, John	New York	Steam engine, rotary	April 13, 1818
Hendryx, Beardestly, & Halstead Price	Chimneys, sweeping	Chimneys, sweeping	Dec. 19, 1818
Hall, William	Do	Mead, carbonated	July 28, 1819
Heaton, James	Do	Brewing by steam	April 21, 1820
Hackley, Harvey	Philadelphia	Steam engine	Feb. 28, 1822
Hatton, Thomas	Red Hook, N. Y.	Stove, cooking	Mar. 1, 1822
Holley, Philologus	Weathersfield, Vt.	Stoves and fire places	May 4, 1822
Hitchcock, Lemuel			

Hale, Elisha	Pomfret, N. Y.	Steam engine, rotary	May 20, 1825
Hoyt, William	Brookville, Ind.	Fire places	June 3, 1825
Harris, Stephen	Norfolk, Va.	Oven, revolving bake	Dec. 5, 1825
Harwood, Sam'l. 3d,	Braintree, N. Y.	Distilling	April 15, 1826
Hill, Solomon	New Milford, Ct.	Burning lime and brick, and boiling kettles	Feb. 12, 1827
Harris, Francis	Albany, N. Y.	Steam and rotary wheel engines	July 10, 1827
Hedenberg, Frs. L.	New York	Oven, portable	April 26, 1828
Hugus, Jacob	Hempfield town's' p, Pa.	Distilling spirits	May 17, 1828
Howell, Benj. B.	Philadelphia	Furnace, iron	Oct. 11, 1828
Do	Baltimore	Furnace, steam, for anthracite coal	Oct. 14, 1828
	Philadelphia	Steam boilers	Nov. 26, 1828
	Boston, Mass.	Cook, economical	Mar. 19, 1829
	Do	Stoves, culinary	Nov. 10, 1829
		Boilers, constructing	Nov. 10, 1829
		Furnace with reflectors	Nov. 10, 1829
		Ovens do	Nov. 10, 1829
		Salt, manufacturing	Nov. 16, 1796
	Tennessee	Spirits, distilling	May 14, 1803
	Massachusetts	Boilers, mode of setting	June 31, 1805
	Portland, Me.	Distilling essential oil and spirits	Jan. 24, 1811
	Pittsfield, Mass.	Still, quilted head clothing for copper	April 25, 1812
	E. Windsor, Ct.	Still, wooden	April 25, 1812
	Do	Stove	Mar. 1, 1813
	Hartford, Ct.		
Janes, Alfred.	E. Windsor, Ct.	Distilling, cylindrical heater for	July 12, 1813
Jenks, Charles, & Abiel	Lynchburg, Va.	Bath, portable hot	Jan. 21, 1814
Pease	Union Village, N. Y.	Stove	April 26, 1815
Jennings, Samuel H.	Farrington, Ct.	Box, tinder	Oct. 25, 1816
James, Wm. T.	New York	Steam engine, rotary	Jan. 17, 1817
Ives, Ira	Colebrook, Ct.	Fire places	Sept. 2, 1818
Jennings, Isaiah	Hepburn, N. Y.	Stove, cooking	Feb. 6, 1819
Jenks, Eb.			
Jenkins, Palmer			

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Jarves, Deming	Cambridge, Mass.	Tubes for glass lamps	Feb. 2, 1822
Jones, Caleb	Burlington, Vt.	Stove pipes	April 5, 1823
Jones, Wm. T.	New York	Stoves, box hearths for	April 23, 1824
Isuard, Maximin	Do	Gas engine	Dec. 11, 1824
Joslin, B. F.	Schenectady, N. Y.	Steam, generating and condensing	Dec. 16, 1824
Jackson, Daniel	Peru, N. Y.	Distilling machinery	Dec. 28, 1824
Joslin, Ben. F.	New York	Condensing steam and cooling liquor	Feb. 9, 1825
Jennings, J.	Do	Steam engine	Mar. 15, 1825
Jones, Samuel J.	Philadelphia	Charring wood for procuring gases	Jan. 17, 1827
Jeans, Abel	Millcreek Hunt'd, Del.	Kilns, lime	Feb. 15, 1827
Judson, Alfred	Sweden, N. Y.	Steam boiler pump	Feb. 24, 1827
Jennings, Isaiah	New York	Steam engine, high pressure, safety	Feb. 11, 1828
Do	Do	Lamp	Mar. 3, 1829
Do	Do	Lamps and economy of light, construction of	June 11, 1829
Do	Do	Fire and light, producing	June 11, 1829
Jarves, Deming	Boston, Mass.	Chimneys, glass, for argand and common lamps	July 20, 1829
Jennings, Isaiah	New York	Lamp	Sept. 10, 1829
Kineaid, John	Pennsylvania	Still	Nov. 25, 1794
Kirk, Timothy	Do	Cistern, boiling	Dec. 20, 1802
Kendall, Jer.	Fayette co., Pa.	Salt, kettles for boiling	Mar. 18, 1818
Kalisky, Fred.	Philadelphia	Distilling apparatus	Dec. 14, 1819
Keyes, Israel	Putney, Vt.	Stove, cooking	Feb. 23, 1820
Kellenback, Balth. J.	Philadelphia, Pa.	Still, perpetual roof	Aug. 6, 1821
Do	Do	Still	Oct. 17, 1822
Kolb, Aug.	Steubenville, O.	Pan and furnace, evaporating	Jan. 14, 1825

Kingsbury, Lewis	Livonia, N. Y.	Chimneys and fireplaces, construction of	Feb. 9, 1825
Kounstar, Conrad	Mill Creek, Va.	Kiln for charring coal	June 20, 1825
Kirk, Augustus L.	Smithfield Town'p, O.	Steam engine, specific	
Love, John	South Carolina	Lamp for tallow	June 11, 1798
Lossing, Peter	New York	Lime, burning	Aug. 4, 1800
Lownes, David	Pennsylvania	Liquors, cooling	July 21, 1803
Lord, Saml. P., jr.	Connecticut	Fire, mode of extinguishing	Mar. 18, 1804
Longwell, Matthew	Gettysburg, Pa.	Boiler of steam engine, heating water by therays of the sun	July 11, 1807
Leesne, Lewis	Philadelphia, Pa.	Chimneys	June 26, 1809
Lewis, Winslow	Boston, Mass.	Lantern, reflecting and magnifying	June 8, 1810
Letton, Ralph	Albany, N. Y.	Boats by steam, propelling	Aug. 29, 1810
Lee, James	Philadelphia	Fuel for glass furnaces, drying	Jan. 14, 1811
Lanny, David F.	Do	Electrophorus	Aug. 23, 1811
Leceste, Lewis	Belleville, N. J.	Distilling apparatus	Dec. 4, 1811
Low, Jona.	Fitchburg, Mass.	Stove, cooking	Feb. 24, 1812
Lloyd, Nich.	Philadelphia, Pa.	Stove	Feb. 29, 1812
Lankestor, Wm.	Boston, Mass.	Stove, parlor fireplace	Nov. 24, 1812
Lanny, David F.	Philadelphia, Pa.	Fireplaces	Mar. 18, 1813
Lewis, W. J.	-	Salt, manufacturing	Feb. 1, 1814
Lane, Aaron	-	Stove	May 11, 1815
Lewis, Wm. J.	New York	Salt, manufacturing	Feb. 1, 1816
Liebenau, Henry F.	Boston, Mass.	Stoves	Sept. 7, 1816
Lewis, Winslow	Salisbury, Ct.	Lamps	Jan. 23, 1818
Lois, John H.	Berlin, Et.	Stoves and fireplaces	Mar. 18, 1818
Lamb, James	New York	Stove, cooking	July 17, 1818
Lane, Aaron	Do	Stoves	Sept. 15, 1818
Leeke, Charles	Ross co., Ohio	Chimneys, machine for sweeping	Sept. 22, 1818
Lansing, J., and A.	Albany, N. Y.	Steam in steam engines, raising the power without increasing the quantity of	Jan. 22, 1820
Thayer, Jr.	-	Steam engine, rotary, shifting piston	Jan. 19, 1821

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAME OF PATENTEE.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Lloyd, R. L., and A. Bartenheimer	Philadelphia, Pa.	Brewing apparatus	Jan. 27, 1824
Lainhart, Henry, jr.	New Orleans	Steam engine	May 6, 1824
Lee, David B.	Philadelphia	Steam, generating	June 9, 1824
Lanning, Joseph H.	Davidson co., Tenn.	Liquids with gas, charging	Dec. 23, 1824
Lovatt, John	Philadelphia	Stove for Lehigh coal	June 16, 1825
Lewis, C., and Phil. Bodman	Baltimore, Md.	Distilling cordials	Sept. 30, 1825
Little, David	Hagerstown, Md.	Stove, cooking	Feb. 1, 1826
Long, George W.	Old Point Comfort, Va.	Steam pump	Feb. 16, 1826
Lanning, Jos. H.	Nashville, Tenn.	Steam, working twice over	Aug. 12, 1826
Lester, Eb. A.	Boston, Mass.	Boilers, construction of steam	May 14, 1827
Do	Do	Engines, construction of	May 14, 1827
Lurk, James	Butler county, O.	Distilling	Dec. 22, 1827
Lester, Eb. A.	Boston, Mass.	Steam, gas, or vapor, generating	Mar. 10, 1828
P. Grosjean	Louisville, Ky.	Distilling	July 30, 1828
Lovatt, John	Philadelphia, Pa.	Boilers and distilleries for anthracite coal, setting up	Mar. 17, 1829
Lee, B. D., & L. Stewart	Do	Engine, rotary, steam	June 11, 1829
Lester, Eb. A.	Boston, Mass.	Sugar from cane juice, manufacturing	Sept. 10, 1829
Morey, Samuel	Oxford, N. H.	Spit turner	Jan. 26, 1793
Do	New Hampshire	Steam application	Mar. 25, 1795
McCallmont, James	Do	Stoves	Feb. 20, 1797
Morey, Samuel	Do	Steam power applied to water	Mar. 27, 1799

Do	Do	New York	Steam, obtaining force from water by	Nov. 17, 1800
Moffit, John	-	Do	Evaporating boiler	Feb. 1, 1803
Do	-	Do	Still	Feb. 1, 1803
Moore, Thomas	-	Maryland	Refrigerator	Jan. 27, 1803
Morey, Samuel, & Rufus Graves, & Giles Richards	-	Massachusetts	Steam engine	June 15, 1803
Melville, David	-	Newport, R. I.	Gas lamp	Mar. 24, 1810
Miller, Jac.	-	Lancaster co., Pa.	Distilling	Mar. 2, 1810
Macomber, James	-	Greenwich, N. Y.	Air flue, descending	Nov. 19, 1811
Morey, Samuel	-	Philadelphia, Pa.	Air, rarified and unrefined, mode of obtaining power by their difference	April 8, 1812
Mix, Eli	-	New Haven, Ct.	Fireplaces, fluted back	April 25, 1812
Morris, John	-	Do	Cooking apparatus	Oct. 3, 1812
Do	-	Do	Boiler box	Oct. 3, 1812
Mallory, James	-	New York	Lamps	Nov. 20, 1812
Morey, Samuel	-	Philadelphia, Pa.	Fireplace and chimney	Jan. 18, 1813
Morris, John	-	New Haven, Ct.	Distilling and boiling liquors	Mar. 3, 1813
Melville, David	-	Newport, R. I.	Gas lamp	Mar. 18, 1813
Merritt, William	-	New York	Bathing machine	Feb. 1, 1814
Miller, Benjamin	-	North Salem, N. Y.	Spirit proof	Feb. 21, 1814
Moore, Henry	-	Aurora, N. Y.	Brandy from domestic materials, imitating	July 2, 1814
Morey, Samuel	-	Boston, Mass.	Steam engine	July 14, 1815
Merrill, Mervin	-	New York	Sugar, moulds for refining	Oct. 25, 1816
Martin, Anth'y B.	-	Hagerstown, Md.	Stoves	Dec. 26, 1816
Morey, Samuel	-	Oxford, N. H.	Boiler for steam engine	Mar. 13, 1817
Do	-	Do	Water burner	Dec. 11, 1817
Mount, Rob. and John	-	New York	Stove	April 11, 1818
Morton, J.H., J.Borely, and R. Huston	-	Lexington, Ky.	Steam for distillation, employing waste	April 28, 1818
Munger, George	-	New Haven, Ct.	Salt, manufacturing common	June 23, 1818

LIST OF PATENTEES.—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Merot, Charles	Philadelphia	Vaporous alembic	Nov. 5, 1818
Mitchell, John R.	Do	Heat retainer and imparter	Nov. 19, 1818
Melville, David	Newport, R. I.	Lamp, Argand's	Nov. 19, 1818
Morey, Samuel	Oxford, N. H.	Steam boilers, triple pipe	Dec. 19, 1818
Do	Do	Water burner	Dec. 19, 1818
Do	Do	Steam, shooting with	Jan. 19, 1819
Do	Do	Stoves, leading flame in by wire gause.	Jan. 20, 1819
Moore, John W.	Washington, D. C.	Chimney sweeping machine	Aug. 8, 1821
Marshall, Benjamin	New York	Steam bath, medicated	Dec. 7, 1821
Magine, Joseph	Baltimore, Md.	Fireplaces	Feb. 4, 1822
McMinn, Robert	Philadelphia, Pa.	Stove for burning Lehigh coal	June 24, 1822
McAllister, David	Brookfield, Vt.	Heating liquids in wooden cisterns	July 15, 1822
Mingle, Philip L.	Do	Stove for Lehigh coal	Oct. 24, 1822
Macdonald, Malcolm	Fayette co., Pa.	Distilling	Feb. 19, 1823
Miller, John	Northampton, Pa.	Furnace, fire proof, for distilleries	Mar. 13, 1823
Moore, George G.	New York	Steam kilns	Dec. 4, 1824
Mayo, Rob.	Richmond, Va.	Grate, reverberating	Nov. 1, 1825
Mastelly, Lewis	New York	Coffee extractor	Sept. 30, 1825
Musselman, Michael	Phelps, N. Y.	Steam to machinery, application of	Dec. 29, 1825
Morey, Samuel	Oxford, N. H.	Engine, gas or vapor	April 1, 1826
McCurdy, John	London, Eng.	Steam, generating	July 1, 1826
Mott, L. C., and W.	New York	Grate and blower for Lehigh coal	Nov. 26, 1826
Holmes	Do	Still	June 15, 1827
McGregor, Malcolm	-	-	-

Maynard, John	Ovid, N. Y.	Steam engine	June 15, 1827
McAllester, A. S., and John Iggett	Salem, N. Y.	Rooms, warming	Dec. 15, 1827
McIntosh, William J.	Georgia	Cane juice, clarifying	Mar. 7, 1827
Moody, Eli	Northfield, Mass.	Oven for boiling over a cooking furnace	April 5, 1828
Miller, John, and B.	Clemmonsville, N. C.	Stills, boilers, kettles, &c., setting	June 24, 1828
Clemmons	Buffalo, N. Y.	Chandeliars of crystallised salt	June 13, 1829
Merrill, Fred. B.	Nashville, Tenn.	Rotary motion by steam	July 16, 1829
Mount, Joseph			
Mead, J., and A. B.	Lebanon, O.	Atmospheric steam engine	July 27, 1829
Kitchell	Gallipolis, O.	Rectifying spirits by redistillation and filtration	Dec. 7, 1829
Mauck, Rob.	Richmond, Va.	Still and boiler	Mar. 31, 1804
Naylor, John	Herkimer, N. Y.	Stove, steam cooking	June 21, 1811
Noyes, Josiah	Schenectady, N. Y.	Fireplaces, constructing	Feb. 3, 1819
Noit, Eliphilet	Do	Heat, evolution and management of	Mar. 23, 1826
Do	Do	Do in the evolution	June 21, 1826
Do	Do	Do evolution and management of	Dec. 29, 1826
Do	Do	Do do	May 30, 1827
Do	Do	Do do	Mar. 26, 1828
Nance, James R.	Floyd, Ind.	Distilling	Dec. 27, 1828
Naylor, William	Waterford, N. Y.	Stoves, cooking	June 11, 1829
Neer, Charles	Newburg, N. Y.	Chimneys, cast iron coping	Sept. 11, 1829
Noyes, Aaron	New York	Kiln, brick	Dec. 29, 1829
O'Conner, Thomas	Essex, N. J.	Still condenser	July 9, 1807
Ogden, Frs. B.	New Haven, Ct.	Steam engine and the application of steam	Dec. 31, 1813
Olmstead, Dennison	Mcford, Mass.	Gas light from cotton seed	July 21, 1827
Putnam, Aaron	Philadelphia, Pa.	Distilling	Jan. 29, 1791
Passmore, Thomas	Pennsylvania	Cooking and boiling	Dec. 23, 1796
Peale, Charles W.		Fireplaces	Nov. 16, 1797
Payne, Wm.		Stove, soapstone	Dec. 10, 1797

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Peale, Charles W.	Pennsylvania	Bath, portable vapor	June 16, 1801
Poole, John	-	Syphonic steam machine	Oct. 13, 1801
Paine, Wm.	Pennsylvania	Still	Aug. 24, 1802
Putnam, Elisha	New York	Fire stop	Aug. 24, 1802
Peers, Valentine	Virginia	Salt, manufacturing	Dec. 18, 1802
Peasley, Jedediah	Vermont	Lime, manufacturing from marl	Feb. 1, 1803
Pickornelle, J. B. M.	New York	Gas, antiseptic	Mar. 24, 1803
Platt, Benjamin	Connecticut	Boiler	April 27, 1803
Power, Thomas	Boston, Mass.	Lime kilns	July 12, 1804
Pollock, Allen	Do	Fireplaces and stoves	April 23, 1807
Pondrell, Jos.	New York	Heating rooms, method of	April 24, 1807
Pollock, Allen	Boston, Mass.	Furnace or stove, economical	April 6, 1808
Parsons, Osborn	Hudson, N. Y.	Stoves for heating rooms	June 17, 1808
Pollock, Allen	Boston, Mass.	Spirits, rectifying	June 23, 1808
Pettibone, Daniel	Roxbury, Ct.	Stoves for heating rooms	June 30, 1808
Parkhurst, John, jr.	Cheshire, N. H.	Stove for warming rooms, rarifying air	Oct. 28, 1808
Parry, Benjamin	Bucks co., Pa.	Stove pipes	Feb. 13, 1810
Potter, Hosea E.	Otsego, N. Y.	Kiln for drying grain	July 7, 1810
Power, Thomas	New York	Boiling potatoes or other food for cattle	Nov. 20, 1810
Pettibone, Daniel	Philadelphia	Stoves	Sept. 27, 1811
Phinney, Zina	Cairo, N. Y.	Rooms by rarified air, warming	May 12, 1812
Parsons, Hezekiah	Colebrook, N. H.	Salt water, improvement on Moffit's machine for boiling	Aug. 19, 1812
Pease, Abiel, & Sam'l Bestor	Enfield, Ct.	Kiln for drying grain	July 9, 1812
		Rectifying spirits	July 27, 1812

Parmelee, Marcus B.	Newtown, Ct.	Steam machine to give constant motion
Phinney, Zina	Cairo, N. Y.	Fuel, saving
Phillips, Gab. N.	Goshen, N. Y.	Stove and boiler
Postley, Charles	New York	Stove, eleven plate
Phillips, Gab. N.	Goshen, N. Y.	Boilers
Postley, Charles	New York	Stove
Parker, Fielder	Pr. George co., Md.	Charcoal for gunpowder
Power, Thos. and Isaac	Hudson, N. Y.	Stoves
Power, Thomas	Do	Kilns, lime
Phoebus, Wm.	New York	Heat, collecting and retaining in stoves
Paine, Ephraim	Philadelphia	Fire extinguisher and chimney sweeper
Pierce, Thomas	Hartwick, N. Y.	Boiler for distilleries
Parsons, Osborn	Pittsburg, Pa.	Salt, boiling
Powers, Enoch	Hartford, Ct.	Ice preserver, portable
Pierce, John J.	Greenfield, Mass.	Stove, open cooking
Planton, Julia	Philadelphia	Stove, foot
Phillips, Thomas	New York	Lamp, economical condensing
Powers, R. N.	Cincinnati, O.	Steam engine, reacting rotary
Prentiss, E. and J.	Baltimore, Md.	Engine, atmospheric
Post, Garret	Auburn, N. Y.	Furnace for heating iron hoops
Perry, Sanford S.	Troy, N. Y.	Stone ware without salt, burning
Phelps, Daniel	Bath, N. Y.	Steam generator
Payne, George J.	Lockport, N. Y.	Heating and boiling water
Poiteaux, Michael B.	Richmond, Va.	Ovens, heating rooms, &c.
Page, Jos. R.	Philadelphia, Pa.	Stove, domestic cooking
Poole, John	Sheffield, England	Boilers for steam engines
Potter, Alden	New York	Do do
Pierce, Caleb	Salem, Mass.	Screen, fire
Packard, E., and J. E.	Granville, N. Y.	Steam, use and application of
Strong	Boston, Mass.	Fire cavern
Quincey, Abm.		
		Aug. 7, 1829
		Mar. 20, 1811
		Aug. 31, 1812
		Oct. 6, 1813
		Feb. 7, 1814
		Mar. 28, 1814
		April 26, 1815
		July 25, 1815
		Aug. 31, 1816
		Jan. 7, 1817
		Nov. 28, 1817
		Dec. 11, 1817
		Feb. 27, 1819
		April 4, 1820
		Aug. 28, 1821
		Mar. 11, 1822
		Nov. 4, 1822
		June 25, 1823
		April 29, 1824
		June 22, 1824
		May 22, 1826
		Sept. 12, 1826
		Nov. 14, 1826
		Dec. 29, 1826
		Jan. 17, 1827
		Mar. 24, 1827
		May 14, 1827
		Oct. 11, 1828
		April 29, 1829

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Quincy, Abm. H.	Boston, Mass.	Furnace for heating ovens	Feb. 17, 1812
Do	Do	Stove, fire proof stone	May 21, 1812
Do	Do	Boiler for chemical purposes, stone	June 13, 1812
Do	Do	Stone heaters for foot stoves	June 13, 1812
Quigley, Moses B.	Washington co., Md.	Heating plates for hot pressing	June 15, 1819
Rumsey, James	Berkeley co., V.a.	Steam engine	Aug. 26, 1791
Do	Do	Steam, generating	Aug. 26, 1791
Read, Nathan	Salem, Mass.	Steam engine boiler	Aug. 26, 1791
Do	Do	Distilling	Aug. 26, 1791
Ryan, Edward	Pennsylvania	Furnace, pot and pearl ashes	April 29, 1793
Richardson, John	New York	Evaporating furnace	Sept. 13, 1802
Rouse, Simeon	Do	Camboose for distilling fresh from salt water	Jan. 1, 1803
Richardson, John	Do	Evaporating furnace	April 4, 1803
Richardson, Edward	Do	Still heads	Dec. 16, 1803
Ross, Talmage	New Jersey	Fireplace, double draught	Jan. 23, 1804
Richardson, Edward	Fredericktown	Still	Oct. 3, 1807
Ross, John H.	Baltimore, Md.	Illuminator for stair cases	June 24, 1808
Richardson, Oliver	Medway, Mass.	Chimneys, constructing	April 18, 1810
Russel, Barzillai	Hartford, Ct.	Rooms, warming	Mar. 4, 1811
Randall, Samuel	Providence, R. I.	Subignus, air draught	Mar. 12, 1811
Rogers, James	Albany, N. Y.	Steam, propelling boats	Sept. 27, 1811
Root, Joel	Southington, Ct.	Backs for chimneys, air	Feb. 13, 1812
Russell, James D.	Wallington, N. C.	Steam engine	April 10, 1813
Roy, Rob.	Warwick, N.Y.	Stove, spiral	Nov. 13, 1813
Reynolds, Charles	East Windsor, Ct.	Steam engine	July 23, 1814

Richards, Lemuel M.	Cazenovia, N. Y.	Boiler or steam generator	Mar. 30, 1815
Rapp, Wm. A.	New York	Distilling turpentine, tar, &c.	Dec. 4, 1815
Rand, Ebenezer	Hudson, N. Y.	Chimneys and fireplaces	Dec. 27, 1816
Richardson, Wm.	Kingston, N. Y.	Distillation	June 15, 1816
Do	Do	Vinegar and cider from offals of distilleries	Sept. 26, 1816
Rumsey, E., ex. of Jas.	Kentucky	Steam boilers and steam engines	Nov. 16, 1816
Do	Do	Wheels, &c. operated on by steam, imp'tn on Rumney's	Nov. 15, 1816
Do	Do	Steam engine applied to navigation	Nov. 15, 1816
Ross, James	Elizabethtown, N. J.	Stove	Dec. 3, 1816
Ricketson, Humphrey	New York	Steam boiler	Dec. 13, 1816
Rogers, George	Northampton, Mass.	Stove, rarifying chimney	Dec. 18, 1816
Rufiner, David and Jos.	Kenawha, Va.	Salt water, mode of obtaining	Jan. 18, 1817
Read, Nathan	Boston, Mass.	Steam engines, rotary	Feb. 21, 1817
Richardson, Israel J.	Geneva, N. Y.	Steam engine	Oct. 13, 1817
Rice, John	Hartford, Vt.	Stove, fireplace and oven	Dec. 6, 1817
Ronaldson, James	Philadelphia	Kiln for seasoning wood	Feb. 2, 1818
Robinson, Geo. W.	Attleborough, Mass.	Kettles, &c. for boilers, setting	July 17, 1818
Redmond, Arthur	Nashville, Tenn.	Brewing	May 20, 1819
Robinson, Geo. W.	Attleborough, Mass.	Furnaces, making	Aug. 19, 1822
Rossiter, Joseph P.	Salina, N. Y.	Salt, fine and coarse	March 2, 1824
Raymond, Herbert V.	New York	Steam boilers applied to hatters' grates	Sept. 16, 1824
Reip, Henry	Baltimore, Md.	Oven, bake	Sept. 27, 1825
Raymond, Garret V.	Richmond, Va.	Furnace for heating hatters' finishing irons	Sept. 29, 1825
Rolph, Social	Wailes, N. Y.	Furnaces, stoves, &c., constructing	Nov. 8, 1826
Read, Elijah H.	Lancaster, Ky.	Steam engine, rotary	Nov. 10, 1826
Reilly, James, and	Waynesborough, Pa.	Chimneys, crank and wheel dampers for	Mar. 10, 1827
John Flanagan	New York	Stove, cast iron foot	June 2, 1827
Robinson, Geo. W.	Athens, N. Y.	Stove, cooking	Jan. 26, 1828
Rouse, Robert C.	Chagrin river, O.	Steam hoiler	Aug. 21, 1828
Richards, Lemuel L.	Montrose, Pa.	Chimneys, curing smoking	April 3, 1829
Read, A. H.	-	-	-

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Richards, Josiah	Claremont, N. H.	Stove, double furnace cooking	Aug. 5, 1829
Richards, Geo.	Providence, R. I.	Stove, cooking and Franklin	Sept. 9, 1829
Stevens, John, jr.	Bergen co., N. J.	Steam boiler	Aug. 26, 1791
Do	Do	Steam engine, improvement on Savary's	Aug. 26, 1791
Do	Do	Bellows, application of steam to work	Aug. 26, 1791
Simpson, Joseph	Richmond, Va.	Distilling	Mar. 4, 1794
Stuart, Richard	Maryland	Chimneys	Feb. 24, 1797
Smallman, James, and A. J. Roosevelt	-	Steam engine, double	May 31, 1798
Sears, John	Massachusetts	Salt, manufacturing	Jan. 24, 1799
Staples, John	Virginia	Still	Dec. 15, 1802
Stevens, John	New York	Steam, production of	April 11, 1803
Stanford, John, jr., & Amos D. Allen	Windham, Ct.	Lantern	May 10, 1804
Spafford, Horatio G.	Hudson, N. Y.	Fireplace, close	May 3, 1805
Smith, Standfast	Suffolk, Mass.	Salt from sea water, extracting	June 12, 1806
Do	Do	facilitating the progress of extracting	June 12, 1806
Do	Walpole, N. H.	do	do
Steward, Stephen	New York	Do	do
Stevens, John	Schenectady, N. Y.	Stills	do
Sanders, John	-	Steam engines and boilers	June 28, 1807
Stubbs, James, and Na- thaniel Parsons	-	Distilling spirits from cornstalks	Jan. 3, 1810
Sweet, John	Chillicothe, O.	Steam engine or vaporous machine	Feb. 7, 1811
Sternberg, Peter	Berkshire, Mass.	Andirons and fireplaces	Feb. 25, 1811
	Montgomery co., N. Y.	Fireplaces	Mar. 20, 1811

Sherwood, Andrew	New York	Stove, kitchen	April 21, 1811
Do	Do	Stove, cooking, drum	April 25, 1811
Stevens, John	Herkimer, N. Y.	Steam engine for propelling boats, constructing	May 21, 1811
Smith, Samuel		Steam kitchen for baking	June 11, 1811
Sherer, Jac., and Abm. Killian			
Staples, John	Lancaster, Pa.	Distilling and refining apparatus	June 17, 1811
Scaly, Richard	Richmond, Va.	Steam engine, pendulum	July 18, 1811
Sellers, Charles W.	Newark, N. J.	Still and condenser	July 25, 1811
Sizer, Jona.	Alexandria, D. C.	Salt, fine from coarse, manufacturing	Oct. 11, 1811
Sternberg, Peter	New London, Ct.	Boilers, circular	Oct. 15, 1811
Shaw, Jona.	Montgomery co., N. Y.	Fireplace	Oct. 28, 1811
Sternberg, Peter	Palmer, Mass.	Distilling spirits at one operation	Nov. 13, 1811
Shoemaker, Daniel	Philadelphia, Pa.	Fireplace	Nov. 19, 1811
Sexton, Jac. W.	Burlington, N. J.	Extinguisher and chimney regulator	Mar. 27, 1812
Spencer, John	Albany, N. Y.	Steam engine, horizontal	July 18, 1812
Share, Joseph	Baltimore, Md.	Stove, kitchen	Feb. 8, 1813
Soper, Tim., jr., and Charles Reynolds	Hartford, Ct.	Furnace for casting brass or other metal, portable	Mar. 30, 1813
Shurtliff, Simeon	Oneida co., N. Y.	Steam stills and water boilers	Dec. 2, 1813
Spohn, Adam	Comrio, Pa.	Distilling from grain	July 5, 1814
Sarchet, Peter, sen.	Cincinnati, Ohio	Chimneys and fireplaces	Sept. 22, 1814
Shurly, Thomas	New Madison c. h. Va.	Salt, manufacturing	Sept. 27, 1814
Stone, John, jr.	Worthington, Mass.	Condenser and heater for manufacturing spirituous liquors	Nov. 18, 1814
Smith, Silas	Genesee, N. Y.	Still, steam or stove	Dec. 8, 1814
Smallman, James	Philadelphia, Pa.	Whiskey, making	May 23, 1815
Seger, John	New York	Air pump for steam engines, double	Aug. 29, 1815
Schultz, William	Do	Cooking machine, family	Nov. 14, 1815
Stevens, John	Hoboken, N. J.	Boiler of steam engine	Jan. 26, 1816
Do	Do	Steam engine	Mar. 14, 1816
Sergeant, John	Vernon, N. Y.	Sliders instead of valves, in working steam engines	Mar. 16, 1816
		Reconductor	April 23, 1816

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Stevens, Montgomery	New York	Stills -	June 17, 1816
Shepherd, Levi	Northampton, Mass.	Fireplaces -	Jan. 25, 1817
Swain, Albertus	Hudson, N. Y.	Stove, cast iron, cooking	Feb. 1, 1817
Swope, Jac.	Lancaster, Pa.	Kiln, lime	Mar. 14, 1817
Sullivan, John L.	Boston, Mass.	Steam engine	Mar. 24, 1817
Simpson, Joseph P.	New York	Stove -	April 5, 1817
Salisbury, William	Derby, Ct.	Fireplaces -	Aug. 16, 1817
Shepherd, Caleb	Cincinnatus, N. Y.	Boiling	Oct. 4, 1817
Sullivan, John L.	Boston, Mass.	Boilers, supply chamber for	Feb. 28, 1818
Do	Do	Boiler, steam engine	Feb. 28, 1818
Do	Do	Steam engine, rotary	Dec. 10, 1818
Do	Do	Water burner, American	Dec. 11, 1818
Do	Do	Boiler for steam engines	Dec. 29, 1818
Smith, Ez. F.	Lenox, Mass.	Lamp, pneumatic	Nov. 8, 1819
Stitwell, Stephen	Bainbridge, N. Y.	Still and water boiler, steam	June 14, 1820
Subin, Aaron N.	Frankfort, Ky.	Steam, application of	Dec. 30, 1820
Stillwell, Stephen	Bainbridge, N. Y.	Water boiler and steam still	June 26, 1821
Schuneman, William	Catskill, N. Y.	Fireplaces -	Aug. 8, 1821
Simonds, Benj., Jr.	Bedford, Mass.	Stove bottom boiler	Oct. 15, 1821
Do	Do	Flue oven door	Oct. 15, 1821
Skidmore, Thomas	New York	Boilers for steam engines	Nov. 30, 1821
Do	Do	Condenser for steam engines	Dec. 1, 1821
Spalding, Stephen	Colchester, Ct.	Fireplaces -	April 11, 1822
Seymour, B., & A. C.	Utica, N. Y.	Stove -	May 25, 1822
Bates	-	-	-

Sweetland, Uriah	Kingston, Pa.	Distilling apparatus	Nov. 18; 1822
Stansbury, Daniel	Belleville, N. J.	Furnaces for fossil coal	April 15, 1825
Shaw, Jonathan	Southport, N. Y.	Rectifying by steam	June 21, 1825
Sullivan, John L.	New York	Furnace for anthracite coal	Nov. 26, 1825
Sholes, Charles	Phelps, N. Y.	Liquids, evaporating	July 26, 1826
Silliman, Levi	Albany, N. Y.	Steam, generating	Jan. 19, 1827
Schreiner, Jos. H.	Philadelphia, Pa.	Safety valve, chimney smoke and	July 31, 1827
Skinner, Jo.	Mantua, O.	Steam, application of	Mar. 14, 1828
Sanburn, Peter E.	Troy, N. Y.	Cooking, applying heat from iron castings for	June 11, 1829
Schermerhorn, C.	New York	Stove for Lehigh coal, cooking	June 23, 1829
Taylor, John	Virginia	Worm, tin, sheet copper, condensing	June 13, 1795
Tilley, Hattil	Massachusetts	Salt vats, mode of covering	Feb. 12, 1800
Thornton, William	Delaware	Boilers for steam stills	Oct. 28, 1803
Thomas, John J.	Charleston, S. C.	Chimneys, protector against water	Oct. 2, 1804
Taylor, John G.	-	Salt, making	Nov. 13, 1805
Thornton, William C.	Washington, D. C.	Still	Dec. 13, 1807
Do	Do	Steam boats and boilers	Jan. 16, 1809
Truman, James	Philadelphia, Pa.	Worm boiler	June 24, 1809
Tobey, Augustus	Alford, Mass.	Distilling apparatus	June 21, 1810
Teale, John C.	New York	Smoke conductor	Sept. 11, 1810
Truman, James	Philadelphia, Pa.	Camboose, portable kitchen or stove	Dec. 3, 1811
Talimage, Ezra	Richmond, Va.	Stills	April 9, 1814
Tuley, Jos.	Frederick co., Va.	Stove, family	May 17, 1814
Tomlinson, Peter	Derby, Ct.	Furnace and fireplace for heating and evaporating liquids	Mar. 7, 1815
Rapp, William A.	New York	Turpentine, tar, &c., distilling	Dec. 4, 1815
Talimage, Ezra	Lancaster, Ky.	Distilling	July 8, 1816
Thacher, David	Tuckerton, N. J.	Salt works, plan of erecting	Oct. 24, 1816
Treadwell, Ephm.	Boston, Mass.	Stove	April 26, 1817
Do	Salem, Mass.	Oven, constructing American	Aug. 27, 1818
Thomas, Rob.	Richmond co., N. C.	Steam engine	May 29, 1819
Taylor, Asa	Philadelphia, Pa.	Candle lamp	Oct. 9, 1819

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Thayer, Amos, Jr.	Albany, N. Y.	Steam wheel	Aug. 8, 1821
Tasker, John	Philadelphia	Stoves	Feb. 3, 1823
Thayer, Amos, Jr.	New York	Steam engine	March 6, 1823
Thornton, James	Pittsburg, Pa.	Do rotary	July 16, 1823
Thomson, James	Do	do do	July 16, 1823
Taleott, Joshua, and J. McCulloch	Smyrna, N. Y.	Stove, Columbian	Jan. 26, 1824
Tuthill, A. G. D.	Utica, N. Y.	Chimneys, construction of	June 8, 1826
Tessenden, Thos. G.	Boston, Mass.	Lamp for boiling water	Jan. 31, 1827
Throckmorton, R. R.	New York	Generator, tubular steam	Jan. 17, 1828
Talbott, Edw. A.	Dublin, Ireland	Engine, Talbott's propelling atmospheric	June 21, 1828
Teissier, J. A.	Boston, Mass.	Salt, manufacturing	Jan. 13, 1829
Do	Do	Do (patented 13th January, 1829)	April 11, 1829
Tudor, H. J.	Do	Reducing calcareous matter into lime	April 29, 1829
Varie, Charles	Canaan, N. Y.	Liquid heating machine	May 2, 1806
Valentine, Roswell	Fredericktown, Md.	Stove chimneys	June 13, 1812
Varie, Charles	Poughkeepsie, N. Y.	Stove, Franklin	July 1, 1814
Van Sicler, John F.	Wash'n City, D. C.	Sugar refining	July 3, 1816
Vergen, Bernard E.	Philadelphia	Grate, cooking	April 26, 1816
Vinton, Thomas	Massachusetts	Improvement in stoves	Oct. 31, 1829
Wheaton, Caleb	Philadelphia	Sugar, claying moulds	Mar. 29, 1797
Williams, Jona., Jr.	New Jersey	Stills and distilling	Mar. 13, 1793
Wighton, William	Massachusetts	Stills and large kettles, setting	Jan. 30, 1804
Wood, Israel	Braintree, Mass.	Salt, apparatus for manufacturing	Feb. 21, 1804
Weld, Ezra			May 16, 1804

Witmer, Henry	Lancaster, Pa.	Condensing tub, improvement on Anderson's	May 17, 1805
Weaver, Abn.	Adams co., Pa.	Distilling apparatus	April 23, 1807
Wheatley, Richard, & Jas. Beaumont	Boston, Mass. Stafford, Va.	Stove pipes, manufacturing Oven	Nov. 4, 1807 Oct. 27, 1808
West, John	Boston, Mass.	Salt, manufacturing	April 17, 1809
Wheeler, Benjamin	New York	Metals, melting	Oct. 17, 1809
Walworth, Jos.	Boston, Mass.	Salt, manufacturing	Mar. 28, 1810
Wheeler, Benjamin	Gt. Barrington, Mass.	Fireplaces	June 18, 1810
Whiting, Ebenezer	Brunswick, N. J.	Boiling water and producing steam	July 26, 1810
Williams, John H.			
Wilbor, Borden, and Tim'y Soper	Washington co., N. Y.	Steam still and water boiler	Feb. 4, 1811
Watson, William	Weymouth, N. J.	Stove	Mar. 2, 1811
Wittmer, Henry	Lancaster, Pa.	Stills	Sept. 19, 1811
Woolsen, Thos.	Amherst, N. H.	Stoves for heating water, and for washing clothes, &c.	July 3, 1812
Whitcomb, Hiram	Cornwall, Ct.	Stills	Nov. 24, 1812
Ward, Peter, & B. Al-lison	Philadelphia	Candle holder, economical	July 20, 1812
Warrall, Geo.	Do	Stove	Mar. 30, 1813
Wheatley, James	Fauquier co., Va.	Still and condensing tub	Nov. 13, 1813
Wollins, Wm. M. B., & Hiram P. Barlow	Oneida co., N. Y.		
Walworth, Daniel	Middletown, Ct.	Distilling	May 6, 1814
Weston, Thomas	Peacham, Vt.	Ores and metals, melting	May 27, 1814
Wilbor, Borden	Whitestown, N. Y.	Still, boiler, and worm	Feb. 13, 1815
Whitemell, Thomas	Scotland Neck, N. C.	Steam engine	April 26, 1815
Warner, Erastus	Baltimore	Mash for distillation, cooling	Sept. 2, 1815
White, Joseph	Poughkeepsie, N. Y.	Stove, boiling, and steam	Sept. 12, 1815
Willson, James	Jefferson co., Ky.	Stills	Jan. 15, 1816
Whips, John	Boston, Mass.	Stove, Franklin	Mar. 9, 1816
Witherle, Joshua		Distilling and rectifying Candlesticks, pewter	April 22, 1816 Oct. 24, 1817

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Woods, Pierce	Frederick co., Md.	Distilling	Sept. 29, 1818
Wisehart, James	Wayne co., Ind.	Sugar from wheat, rye, &c., making	May 25, 1819
Williams, John	Cambridge, Mass.	Beer, making spruce	Feb. 17, 1820
Williamson, Peregrine	Baltimore	Coffee roaster	Mar. 20, 1820
Wilcox, Richard	New York	Distilling by steam	April 20, 1820
Do	Do	Oven, portable rotary	April 20, 1820
Winslow, Nathan	Portland, Me.	Stove, cooking	May 3, 1820
Warren, Josiah	Cincinnati, O.	Lamps for burning fat, &c.	Feb. 28, 1821
Ward, Minus	Columbia, S. C.	Steam engine	Mar. 23, 1821
Warral, Henry	New York	Furnace, cupola	Dec. 31, 1821
Weaver, William W.	Philadelphia	Stove pipes	April 16, 1822
Wilson, James	New York	Stove, Franklin and cooking	Mar. 13, 1824
Wentworth, Thomas	Otsego, N. Y.	Stove, cooking and Franklin united	May 18, 1825
Williamson, Per.	Baltimore	Coffee roaster	June 18, 1825
Wadsworth, John A.	Portsmouth, R. I.	Steam engine power wheel	Sept. 27, 1825
Whitton, Abm.	Staunton, Va.	Distilling	Sept. 28, 1825
Woodruff, Oliver	New York	Furnaces for burning anthracite and other coal	Nov. 7, 1825
Wadsworth, John A.	Portsmouth, R. I.	Evaporator, compound	Nov. 23, 1825
Whinney, Washam	Rochester, N. Y.	Washing machine in distilleries	Jan. 19, 1826
Willis, Wm.	Charleston, S. C.	Steam engine, two cylinders, atmospheric	Nov. 14, 1826
Wolcott, Anson & Nor-	Bloomfield, N. Y.	Liquor, distilling all kinds of	Dec. 8, 1826
man	Do	Alcohol by steam, extracting	Mar. 19, 1827
Westerfield, David	New York	Cooking apparatus	Mar. 24, 1827
Ward, Minus	Baltimore	Gas and heated air in aid of steam power	May 15, 1827

Wales, Hiram	Randolph, Mass.	Stove, air funnel	May 18, 1827
Walters, Jac. F.	Philadelphia	Culinary fixtures for anthracite coal	June 8, 1827
Wing, Warren P.	Greenwich Village, Ms.	Steam engine	Aug. 17, 1827
Ward, M., & R. W. Hall	Baltimore	Gas, during the combustion of anthracite coal, inflammable	Jan. 19, 1828
Willis, William	Charleston; S. C.	Steam engine, anti-steam power	Feb. 1, 1828
51 Wilson, James G.	New York	Steam boilers for stone coal	Feb. 22, 1828
White, David	Fredonia, N. Y.	Distilling spirits from still slop	June 17, 1828
Wood, Richard L.	Philadelphia, Pa.	Rosin, pine, for fuel	Oct. 10, 1828
Williamson, Peregrine	Do	Stove, premium, railway cooking	Feb. 16, 1829
Wilcox, Philip	Springfield, Mass.	Baker, Wilcox's economical	Feb. 18, 1829
Woodhull, Jos.	Rochester, N. Y.	Steam engine, rotary, double rack and twin wheel	April 6, 1829
Youle, John	New York	Camboose for cooking	May 25, 1795
Youle, George	Do	Do stove for cooking and distilling	Mar. 21, 1806
Do	Do	Do and cooking stove	May 21, 1806
Do	Do	Do	April 1, 1807
Do	Do	Do	July 27, 1809
Do	Baltimore	Kitchen, moveable	July 1, 1814
Yeaman, Royal	Do	Steam boiler	Jan. 9, 1815
Do	Do	Do boilers	Nov. 20, 1817
Youle, George	New York	Fire hearth, range or gallery	Mar. 19, 1819
Young, Elam	Fall township, O.	Valve for steam boilers, revolving	Sept. 10, 1819

LIST OF PATENTS—MILLS.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Band chain, with buckets, &c., to give motion to mills	Stephen Belknap	New York	Dec. 28, 1809
Bark mill	John Barclay	Pennsylvania	July 19, 1794
Do do cutting and grinding	Isaac Warrell	Do	Mar. 17, 1802
Do do	Thomas W. Pryor	Philadelphia, Pa.	May 21, 1805
Do do	Cornelius TobeY	Hudson, N. Y.	May 7, 1807
Do do	Paul Pilsbury	Newbury, Mass.	Sept. 22, 1808
Do do	Luther Gale	Berkshire co., Mass.	Mar. 20, 1811
Do grinding and packing	Jos. Richardson and Benjamin Stout	Bucks county, Pa.	June 6, 1812
Do mill	Caleb Churchman and George Martin	Upper Chichester, Pa.	July 16, 1813
Do do	Jared Olds	Meriden, Ct.	April 18, 1814
Do do	Luther Gale	Lenox, Mass.	May 16, 1815
Do queritron, apparatus for preparing	James Andrews	Philadelphia, Pa.	July 15, 1816
Do machine for breaking	Nathan Sears	Hudson, N. Y.	Oct. 31, 1820
Do mill	Alex'r Tolson	Georgetown, D. C.	June 2, 1821
Do do	E. and J. Trask	Sangerfield, N. Y.	Nov. 22, 1821
Do do	James Elliot	Philadelphia, Pa.	May 24, 1822
Do do	Cotton Foss	Madison, O.	Oct. 25, 1826
Do do east iron	William Torrey	Westbrooke, Me.	Sept. 13, 1827
Do do	Aaron Bull	Caroline, N. Y.	Mar. 27, 1828
Do do	John Montgomery	Sangerfield, N. Y.	May 29, 1828
Do do and dye wood	Ob. Pease and Asher Donalds	Norfolk, Ct.	Mar. 18, 1808
Bolting cloth	Robert Dawson	Delaware	May 12, 1796

Boxes, cast, wrought iron, or wood, for all kinds of machinery

Cattle mill	Sullivan Reynolds	Guilford, N. Y.	June 13, 1829
Coffee mill	La Payne (aine)	Baltimore, Md.	Nov. 4, 1805
Do	Thomas Bruff, sen.	Maryland	Jan. 8, 1798
Do	Increase Wilson	New London, Ct.	Mar. 6, 1818
Do	Burrows Smith	Cincinnati, O.	June 9, 1818
Do	Jona. Sizer, admir. of Zach. Waterhouse	New London, Ct.	June 12, 1818
Do	James Carrington	Wallingford, Ct.	April 3, 1829
Crank, anti-friction	Benj. L. Oliver	Salem, Mass.	Mar. 9, 1821
Do wheel motion	James Wallace	Columbia, S. C.	Sept. 25, 1824
Elevator, conveyor, or hopper boy for elevating grain, flour, meal, &c.	Saml. Walgemore	Washington, D. C.	Feb. 22, 1812
Do raising fluids or grain	Jer. Bailey	Kennett's Square, Pa.	June 19, 1812
Floating mill and silent fisher	Rob. Christy	Jefferson co., Va.	Nov. 21, 1812
Flour, meal, &c., manufacturing	Eb. Ford	Charleston, S. C.	Dec. 21, 1809
Do manufacturing	Oliver Evans	Philadelphia, Pa.	Dec. 18, 1790
Do	Do	Do	Jan. 22, 1808
Do worm for cooling	Jos. Rich	Madison co., N. Y.	Jan. 27, 1812
Do preserving from becoming sour	John Smelzer	Adams co., Va.	May 6, 1813
Do	Wm. Wood, jr.	St. Clairsville, O.	Dec. 4, 1824
Browning	E. Hord and B.	Browning	Mar. 12, 1825
Wm. H. Aikens	Asa Messer	Berkshire, N. Y.	Dec. 3, 1829
Asa Messer	Jabez B. Fletcher	Providence, R. I.	Nov. 19, 1822
Do	John P. Sawin	Richmond, Me.	Feb. 16, 1825
water wheels	Edward Mott	Roxbury, Md.	Jan. 24, 1811
Friction cylinder, co-operating	Wm. Maher	Philadelphia, Pa.	Oct. 4, 1817
Do preventing, or anti-attrition	Amos Bolton	Rome, N. Y.	Nov. 12, 1811
Gate, water balance	Benj. S. Hort	Fauquier co., Va.	June 19, 1812
Do mode of shutting	Samuel Herrick	Georgetown, S. C.	Oct. 9, 1813
Do flood		Clermont co., O.	July 21, 1817
Do saw, machine for giving motion			

LIST OF PATENTS—MILLS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Gate, flood	Jona. Lucas	Charleston, S. C.	Nov. 6, 1819
Do water, for penstocks or flumes	Henly Potes	Christianburg, Va.	Jan. 9, 1827
Do do opening and shutting	Origen Packard	Wilmington, Vt.	Feb. 12, 1827
Do paddle	John F. King	Waterford, N. Y.	Nov. 29, 1828
Gear, running, for mills	Brittain Huckaby	Huntsville, Ala.	Aug. 16, 1824
Do screw	Charles Wortham	Warren co., N. C.	April 24, 1826
Do spur for bevel	Charles Neer	Waterford, N. Y.	Mar. 9, 1827
Grain, machine for raising by blowing	Jer. Baily	Chester co., Pa.	Mar. 5, 1810
Grinding corn on the cob	William Mayo	Henrico, Va.	May 15, 1812
Do and pounding machine	Alex. D. Moore	New Haven co., N. C.	Aug. 7, 1813
Do ores into powder	Henry Alexander	Baltimore, Md.	Oct. 27, 1813
Do potatoes	Jesse King	Florida, N. Y.	Mar. 1, 1814
Do grain	John Bicknell	Buckfield, Me.	Dec. 11, 1822
Do do	B. and J. C. Langdon, and J. Trask	Troy, N. Y.	Sept. 26, 1823
Do and shelling corn	Samuel Fowkes	Catskill, N. Y.	May 4, 1825
Do corn	Jarvis Webster	Philadelphia, Pa.	July 31, 1826
Do grain and paints	Hy. Averill	Richland, N. Y.	April 30, 1829
Grist mill, improvement on Barker's	James Rumsey	Berkeley co., Va.	Aug. 26, 1791
Do working	Do	Do	Aug. 26, 1791
Do double centred	Jona. Curtiss	Pennsylvania	Aug. 24, 1797
Do	Benj. Dearborne	Massachusetts	April 30, 1799
Do	Hadillard Chase	New York	Dec. 16, 1799
Do	Benj. Tyler	New Hampshire	Feb. 20, 1800
Do	George W. Holley	Connecticut	Mar. 27, 1802

Do	Jos. Copes	Georgetown, Del.	May 2, 1805
Do	Ez. Hale	Haverhill, Mass.	Feb. 22, 1807
Do	Chris. Hamaker	Lancaster, Pa.	May 21, 1807
Do	Rufus W. Adams	Marlborough, Vt.	Dec. 8, 1808
Do	Israel Kelsey	Hartford, Ct.	Aug. 25, 1809
Do	Jos. L. Miller	Brookfield, N. Y.	Mar. 28, 1810
Do	Jeremy Frisbie	Pennsylvania.	June 30, 1810
Do	Jos. Goulding	Leicester, Mass.	Mar. 1, 1811
Do	Jos. Quimby	Wilmington, N. C.	Feb. 3, 1812
Do	Abr. Sawyer	Chester, Vt.	July 20, 1813
Do	Eb. Bryant	New London, Ct.	Feb. 8, 1814
Do	John Ormsby and Thos. Cohoon	Washington City	Jan. 4, 1816
Do	Thos. Ellicot	Pennsylvania	Feb. 17, 1816
Do	Samuel Brewster	Middlesex, N. J.	Mar. 15, 1816
Do	J. and D. Hascall	Likay, N. Y.	Mar. 9, 1822
Do	Robert Burns	Mifflin co., Pa.	June 20, 1822
Do	John Wilson	Manlius, N. Y.	Aug. 27, 1824
Do	Samuel Fowkes	Catskill, N. Y.	Sept. 13, 1824
Do	Hy. Bailey	Hartford, Ct.	May 14, 1825
Do	Jos. Ives	New York	Dec. 2, 1825
Do	David Flagg, jr.	Gardiner, Me.	Feb. 23, 1826
Do	Moody Stockman	Hampton, N. H.	April 18, 1826
Do	Francis Harris and J. Wilson	Albany, N. Y.	June 9, 1826
Do	Isaac Ryon	Bridgewater, Mass.	June 29, 1826
Do	Jedediah Northrop	Woodbridge, Ct.	July 31, 1826
Do	Moses Mendenhall	Greensburg, N. C.	Oct. 20, 1826
Do	James Bemis	Worcester, Mass.	Nov. 17, 1826
Do	Anthy. Bencine	Caswell, N. C.	Jan. 16, 1827
Do	Wm. Benbow	Guilford eo. , N. C.	Jan. 19, 1827

LIST OF PATENTS—MILLS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Grist mill	Thomas Newman	Guilford co., N. C.	Feb. 6, 1827
Do	Benj. Overman	Greensborough, N. C.	Feb. 28, 1827
Do horizontal crusher and sheller	Jona. Reynolds	America, N. Y.	Mar. 15, 1827
Do	John G. Morse	Randolph co., N. C.	Mar. 20, 1827
Do	Abm. Delap and Avery Eye	Guilford co., N. C.	May 31, 1827
Do	Rob. S. Thomas	Rockingham, N. C.	June 4, 1827
Do	S. Lawing and J. Monteith	Statesville, N. C.	June 11, 1827
Do	Wm. W. Forward	Harford co., Md.	June 15, 1827
Do	Sid. & Portius Moore	Mount Tirzah, N. C.	June 15, 1827
Do	William A. Turner	Plymouth, N. C.	June 27, 1827
Do	Washington Adams	Guilford, N. C.	July 18, 1827
Do	Avery & John Coe	Do	July 21, 1827
Do	James Robinson	Buckskin town's p. O.	Dec. 11, 1827
Do	William L. Taylor	McMinn, Tenn.	Jan. 28, 1828
Do	Samuel Holland	Hanover, O.	Mar. 1, 1828
Do	Admiral Warren	Saugerties, N. Y.	Mar. 12, 1828
Do	Jos. Crail	Warren, O.	June 19, 1828
Do	Reuben Medley	Bloomfield, Ky.	Sept. 5, 1828
Do	J. Smith and William Sapp	Mount Vernon, O.	Sept. 9, 1828
Do	Thomas Baker	Statesburg, S. C.	Jan. 21, 1829
Do	Benjamin M. Kemp	Fort Plain, N. Y.	Jan. 31, 1829
Do	J. W. & C. Post	Washington, D. C.	April 11, 1829

Do		Wheeling, Va.	July 31, 1829
Job Wickersham and T. Crozer		E. Fairfield, O.	Aug. 29, 1829
Do and spiral water wheel		Brookfield, O.	Dec. 11, 1829
Do ink and vertical axis		Frankfort, Me.	Dec. 23, 1829
Do cast iron spindles		Athens, Pa.	Oct. 1, 1823
Gudgeon mill.		Strasburg, Pa.	Aug. 24, 1813
Do head block for saw mill carriage		Dinwiddie co., Va.	Aug. 11, 1817
Hopper blower		Schoharie, N. Y.	July 9, 1814
Do filler for bolting flour		Sharon, Ct.	Jan. 18, 1810
Horse mill		Lancaster, Pa.	Jan. 15, 1814
Do by using weights		Cheshire, Ct.	April 10, 1810
Do lever		Accomack, Va.	May 12, 1812
Horse power applied to machinery		New York	Dec. 14, 1816
Do do do		Saugerties, N. Y.	April 5, 1821
Motion, constant, from irregular power		Maury co., Tenn.	April 15, 1826
Do communicating from one wheel to another		Accomack, Va.	Mar. 6, 1828
Do alternate lateral		New York	Jan. 22, 1817
Do rotary, from rectilineal		North Carolina	April 11, 1825
Do works		Louisville, Ky.	Aug. 21, 1801
Do machinery, impelling power for		Samuel Mans and J.	June 25, 1805
Milling		Black	Feb. 18, 1809
Motion, constant, from irregular power		Benj. S. Ridgway	Feb. 6, 1829
Do communicating from one wheel to another		Jesse Reeder	Oct. 31, 1829
Do alternate lateral		Jos. Kello	April 1, 1815
Do rotary, from rectilineal		William Simpson	Feb. 19, 1818
Do works		Nathan Moody	Feb. 19, 1819
Do rotary, from alternate		A. W. Foster and J.	Greensburg & Hemp-
		Hugus	ford, Pa.
		Peter Cooper	April 26, 1819
			April 6, 1820

LIST OF PATENTS—MILLS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Motion, rectilinear, into rotary	John Y. Savage	Raleigh, N. C.	Aug. 9, 1823
Do do	Arch. Smith	Rhinebeck, N. Y.	Aug. 30, 1823
Do of machinery, changing	Otis Pettie	Newton, Mass.	Mar. 15, 1825
Do extending and multiplying power	William Kendall, jr.	Waterville, Me.	Jan. 16, 1826
Mustard, preparation of flour of	Samuel Hopkins	Rahway, N. J.	Aug. 19, 1813
Do do	Do	Philadelphia, Pa.	May 31, 1817
Paint mill	Caleb Greene	Massachusetts	July 23, 1801
Do do	Jacob Cest	Pennsylvania	Dec. 3, 1803
Do do	John J. Wells	Hartford, Ct.	June 13, 1809
Do machine for grinding	Peter Breasted	Green co., N. Y.	April 18, 1814
Do mill	Elijah Skinner	Sandwich, N. H.	Dec. 28, 1818
Do and drug mill	Isaac Eddy	Boston, Mass.	Mar. 19, 1824
Do mill, horizontal cast iron	Origen Packard	Wilmington, Vt.	Feb. 12, 1827
Do	Allen Holcomb	Butternuts, N. Y.	May 14, 1827
Do trunked mouth	Samuel Cook	Mendon, Mass.	Mar. 3, 1829
Pendulum applied to mill machinery	Isaac Cobb	Walpole, N. H.	Mar. 1, 1809
Do mill	Solomon Thayer	Braintree, Mass.	Oct. 9, 1811
Do do	William Grandin	Hector, N. Y.	Jan. 6, 1813
Do power, regulated by fly wheel	Wm. W. McIntosh & W. Barnheart		
Do and lever power	A. & C. Berry	Poughkeepsie, N. Y.	April 13, 1825
Do motion for machinery	Justin Jacob	Montreal, Canada	Mar. 25, 1826
Plaster mill	Eman'l Kent	Baltimore, Md.	Dec. 29, 1826
Do do	William Brown	Do	Sept. 14, 1804
Do	A. Fettrow	York, Pa.	Dec. 8, 1808
			May 28, 1818

Platform, flexible, to give motion to wheels	John Johnson	Charleston, S. C.	Nov. 22, 1809
Powder mill for manufacturing gunpowder	Henry Keyser	Philadelphia, Pa.	Aug. 10, 1791
Do and rice	Benjamin Bolitho	Pennsylvania	Feb. 7, 1800
Do	George Keyser	Philadelphia, Pa.	July 27, 1803
Do granulating	E. J. Dupont de Mours	Wilmington, Del.	Nov. 23, 1804
Do	Richard Crosbie	Newark, N. J.	Feb. 17, 1812
Do manufacturing	Thomas Ewell	Georgetown, D. C.	Dec. 7, 1813
Do granulating	Jos. Worsley	Berne, N. Y.	Feb. 21, 1815
Do	Charles Dalmas	Wilmington, Del.	April 26, 1816
Do	Daniel Rogers	Newburgh, N. Y.	Aug. 26, 1818
Do	Gardner Fulton	Philadelphia, Pa.	Aug. 21, 1819
Do manufacturing	J. M. Merrow & R. McKee, jr.	E. Hartford, Ct.	April 19, 1822
Do granulating	Wm. F. Richardson	Baltimore, Md.	Aug. 3, 1822
Power gaining machinery	Charles Redheffer	Philadelphia	July 11, 1820
Do extending	Asa Bisber	N. Yarmouth, Me.	Jan. 27, 1824
Do communicating by metallic bands	Jos. Eve	Augusta, Ga.	May 1, 1828
Do horse, water, or steam, applied to machinery	Rob. Mitchell	Cynthiana, Ky.	Oct. 10, 1829
Do machine	William Hosford, jr.	Washington town, p. O.	Dec. 31, 1829
Do steam, applying to circular motion	Rob. Dennis	Railway, N. J.	Nov. 3, 1825
Propelling all kinds of machinery	William Stanton	Centre town ² , Pa.	April 23, 1827
Do machinery by weights	Cain Broyles	Tellico, Tenn.	Oct. 19, 1827
Pump for elevating meal, grain, &c.	John Ewing & David Dickey	Oxford, Pa.	Oct. 2, 1813
Rapids and shallow rivers, rendering them navigable	John Stephens	Hoboken, N. J.	June 8, 1824
Rolling tub mill	Samuel Bartlett	East Windsor, Ct.	July 19, 1808
Rotary motion machine, double horizontal	William C. Sullivan	Jefferson co., Ind.	June 5, 1824
Sack shoulderer	Lewis Rice	Clarkborough, N. J.	Aug. 3, 1827
Saw mill	Henry Dulheur	South Carolina	Aug. 18, 1797
Do steam	Rob. McKean	New Jersey	Mar. 24, 1798
Do	Aaron Clarke	New York	Mar. 30, 1798

LIST OF PATENTS—MILLS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Saw mill	Thomas Payne	New York	Dec. 2, 1799
Do	Moses Coates	Pennsylvania	April 1, 1802
Do	Hez. Richardson and Levi Richardson	Massachusetts	April 28, 1802
Do	William Palmer	New York	Dec. 31, 1802
stone and for cleaning cotton	G. F. Saltonstall	North Carolina	Jan. 4, 1803
Do	Jos. Quimby	Boston, Mass.	April 25, 1806
Do	Jacob Spafford	Ipswich, Mass.	June 23, 1807
Do	Anson Blake	Lincoln, Ky.	Nov. 27, 1807
gauge setter	George Huling	Shaftsbury, Vt.	Nov. 24, 1809
circular	Ezra Old and Pliny Upham	Worcester, Mass.	Dec. 24, 1809
Do	Elisha Cooke	Bethlehem, Mass.	Jan. 20, 1810
sawing timber, &c., without a stub short do	John Sweet	Do	Feb. 5, 1810
do	Abel Wright	Canaan, N. Y.	Mar. 7, 1810
Do	Adonijah Jones, jr.	Bethlehem, Mass.	Mar. 14, 1810
Do	Jos. Ennals	New Market, Md.	April 10, 1810
Do	George Harris	Philadelphia, Pa.	May 3, 1810
Do	William Underwood	Herkimer, N. Y.	Sept. 6, 1810
Do	Stephen Belknap and Samuel Merrill	Georgetown, D. C.	Feb. 15, 1811
Do	Miles H. Abbott	Philadelphia, Pa.	Feb. 26, 1811
Do	Oliver Evans	Chenango, N. Y.	April 15, 1811
Do	Marshall Lewis	—	May 24, 1811

	Josiah Hart and Lester Fling	Cheshire, N. H.	Jan. 18, 1812
Do	John D. De Lacy	New York	Mar. 28, 1812
Do	Samuel K. Gore	Bradford co., Pa.	May 4, 1812
Do	Webb Hart	Cheshire, Ct.	May 26, 1812
Do	Ethan Owen	Prince George'sco., Va.	Oct. 1, 1812
Do	Hiram Whitcomb	Conwall, Ct.	Mar. 2, 1813
Do	Luther Bissell	Hartwick, N. Y.	July 3, 1813
Do	Elisha Morgan	Clinton co., N. Y.	Jan. 24, 1815
Do	Henry Quinn	Huntington, N. J.	Feb. 21, 1815
Do	Samuel Brewster	Middlesex, N. J.	Oct. 30, 1815
Do	Jesse Springer	Cape May, N. J.	Dec. 27, 1815
Do	Thomas Cohoon	Washington City, D.C.	Jan. 5, 1816
Do	John Elder	Hamilton, Mass.	Feb. 16, 1816
Do	David & M. Fountain	Eastern Shore, Md.	April 11, 1816
Do	Daniel Collins	Genesee co., N. Y.	April 5, 1817
Do	John Bruff	Somerset co., Md.	Jan. 6, 1818
Do	Thomas White	Chester, S. C.	Aug. 16, 1821
Do	Isaac Ryon	Bridgewater, Mass.	April 27, 1822
Do	Eb. Whitney	Ithaca, N. Y.	Nov. 24, 1825
Do	Israel Johnson, jr.	Villenovia, N. Y.	Nov. 1, 1825
Do	Reuben Nichols	New Orleans	Feb. 8, 1826
Do	Sol. R. Johnson	New York	July 21, 1826
Do	Wm. G. Berry and J. T. Osborn		Oct. 25, 1826
Do	Anthy. Bencine	Cincinnati, O.	Nov. 26, 1826
Do	Anson B. Graham	Milton, N. C.	June 4, 1827
Do	Wm. Kendall	Lee, Mass.	Sept. 28, 1827
Do	Benj. Overman	Waterville, Me.	Nov. 23, 1827
Do	Wm. Kendall	Greensburg, N. C.	Dec. 11, 1827
		Waterville, Me.	Dec. 31, 1827
Do	improvement on Johnson's reciprocating		
Do	reciprocating		
Do	reciprocating		

LIST OF PATENTS—MILLS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Saw mill	-	-	Woodstock, Vt.
Do curvilinear	-	-	Ipswich, Mass.
Do -	-	-	Deerfield, N. Y.
Do -	-	-	Moriah, N. Y.
Do floating	-	-	New York
Screen pendulum	-	-	Charleston, S. C.
Do brushing	-	-	Windham, Ct.
Screw mill, for breaking and grinding hard substances	Ephraim Tisdall	-	July 17, 1815
Sifting meal	Oliver Evans	-	Feb. 14, 1804
Snuff mill	Daniel Homan	-	Mar. 8, 1813
Stones, picking mill	Thos. Baldwin	-	June 22, 1819
Do burr for mills	Solomon Hodge and Jona. Dorr	-	
Do machine for dressing	Oliver Evans	Washington, N. Y.	Oct. 23, 1792
Do mill	Benj. Ridgway, jr.	Pennsylvania	May 28, 1796
Do machinery for raising casting faces of	Wm. Miller	Morrisville, Pa.	May 24, 1811
Do machine for dressing concave and convex	Thomas Reynolds	Lampeter, Pa.	Aug. 15, 1811
Do	Grafton Manter	West Fallowfield, Pa.	Nov. 8, 1814
Do	Leonard Norcross	Londonderry, N. H.	Dec. 8, 1818
Do	J. Sawyer and E. Clark	Livermore, Me.	May 6, 1823
Do bush	-	Royalston, Mass.	Mar. 18, 1826
Do	Nathan Taylor	Urbana, N. Y.	July 23, 1827
Sugar mill	David Philips	Jefferson co., Miss.	April 3, 1829
Tide mills	Jean B. Avelhe	New York	Aug. 28, 1817
	Jona. Dickerson	Morris co., N. J.	July 30, 1791

Tide mills

Do		John P. Sawin and Jacob Skinner	Roxbury, Mass.	May 17, 1810
Do		Francis Ritual	Lincoln, Mass.	Jan. 28, 1815
Do	and current	Josiah Cleaveland	St. Mary's co., Md.	Oct. 22, 1816
Do	or	Henry Allon	Fayette co., Ten.	Dec. 30, 1820
Do	or current	Geo. H. D. Gray	Southampton, Va.	Sept. 25, 1822
Tide power		Robert Spedden	Talbot, Md.	Aug. 1, 1827
Do motion applied to machinery		Jos. Wallace	Hartford, Ken.	Sept. 11, 1829
Tub mills		Henry M. Western	New York	Dec. 23, 1829
		John Staple, jr.	New York	Mar. 18, 1803
		Charles McLean and Solomon Loomis	Hartford, Ct.	Sept. 25, 1805
		Asa Danielson	Otsego, N. Y.	May 16, 1815
		Jarvis Smith	Queens' co., N. Y.	July 1, 1817
		Samuel Sperry	Nashville, Ten.	Nov. 9, 1824
		Thomas Key	Henry co., Geo.	July 18, 1826
		Jac. Ammon	Rockingham, Va.	June 8, 1827
		Michl. Hildebrand	McMinn co., Ten.	Nov. 10, 1827
		James Stewart	Robertson co., Ten.	Oct. 24, 1828
		J. P. Espy and A. Young	Philadelphia, Pa.	Sept. 11, 1829
		Samuel Brower	New York	Nov. 27, 1812
		Jac. Perkins	Newburyport, Mass.	June 26, 1813
		John Owings	Baltimore, Md.	Jan. 25, 1814
		Josiah W. Newbury	Luzerne, Pa.	June 28, 1815
		Samuel Morey	Boston, Mass.	July 14, 1815
		Meredith Mallory	Benton, N. Y.	Mar. 3, 1817
		Amos Thayer	Albany, N. Y.	May 1, 1818
		Abner Vansant	Jefferson co., Miss.	Sept. 29, 1823
		Isaac Garretson	Belle Fontaine, O.	Mar. 25, 1826
		Rob. & T. McCulloch	Athemarie co., Va.	May 26, 1827

Water, letting on wheels, and using on wheels successively
 Do flutter wheels
 Do water wheels
 Do do do
 Do do do
 Do do do
 Do applying to flutter wheels
 Do drawing from forebays, and discharging on wheels

Water mill

Do				
Do				
Water power, application to work mills				
Do	do	to water wheels		
Do	do	to machinery		
Do	do	of		
Do	by spiral wheels			
Water, steam, and wind, applying as a power				
Do power applied to wheels				

LIST OF PATENTS—MILLS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Water pressure for propelling machinery	George M. Gibbs	William's parish, N.C.	Mar. 10, 1828
Wheel, water, horizontal	James Macomb	Princeton, N. J.	Aug. 26, 1791
do tide	Cyrus Betts	New York	Mar. 18, 1797
Do do spiral	Elias Ring	Do	Dec. 10, 1797
Do do regulating	John Martin	Do	April 27, 1798
Do flame	Walter Brewster	Connecticut	June 7, 1798
Do horizontal	Ezekiel Reed	Massachusetts	Feb. 14, 1799
Do within cylinders	James Sharples	New York	Sept. 15, 1801
Do mill	James Cowen	Massachusetts	Dec. 14, 1802
Do water, sub	Cyrus Bent	Ohio	Mar. 7, 1803
Do mill	John Staples, Jr.	New York	Feb. 17, 1804
Do sluice and cast iron	James Humiston, Jr.	Wallingford, Ct.	May 10, 1805
Do water	Ephm. Hubbel	Middlebury, Vt.	May 1, 1806
Do	Simon Willard, Jr.	Hudson, N. Y.	Dec. 1, 1807
Do	John Johnson	Knox co., Ind.	Mar. 21, 1808
Do	William Smith	Gloucester, N. J.	Aug. 12, 1808
Do	Joel Farnham	Oswego, N. Y.	Nov. 23, 1808
Do	Richard Berrian	New York	Feb. 13, 1809
Do	Ephm. Rew	Canandaigua, N. Y.	Feb. 22, 1809
Do	William Stubbs	Chillicothe, O.	May 1, 1809
Do	Fitch Ives	Lisle, N. Y.	July 5, 1809
Do	William L. Bakewell	New Haven, Ct.	Aug. 18, 1809
Do	David Parmelee	Redding, Ct.	Nov. 20, 1809
Do	Jona. Miner	Saratoga co., N. Y.	April 2, 1810
Do	Aaron Reuck	Chillicothe, O.	Dec. 5, 1810
Do			

Dexter Wheeler	Bristol, Mass.	Mar. 27, 1811
Dan. Van Voorhis	Long Island, N. Y.	Mar. 21, 1811
Benj. Schoolfield and		
William Stanton	Lynchburg, Va.	April 25, 1811
Mark Andrews	Kennebeck, Mass.	May 4, 1811
John Oshorn, Jr.	Litchfield, Ct.	May 29, 1811
Luke C. Hinman, L.		
Bissell, and Moses		
Barnes	Otsego, N. Y.	June 7, 1811
Abm. Sands	Georgetown, D. C.	Aug. 28, 1811
Jos. Atkinson	Amherst, Mass.	Sept. 5, 1811
Elisha Mack	Sheffield, Mass.	Nov. 2, 1811
Rufus Lathrop	W. Springfield, Mass.	Nov. 12, 1812
David Cooper	Jericho, N. Y.	May 12, 1814
John Andrews	Litchfield, N. Y.	May 27, 1814
David Pelton	Lyne, N. H.	Sept. 30, 1814
William Cornwell	Accomack, Va.	Dec. 15, 1814
George Peck	Whitestown, N. Y.	April 26, 1815
James Wood	Mount Pleasant, N. Y.	June 19, 1815
Jonathan Reynolds	Dutchess co., N. Y.	June 24, 1815
John A. Morton	Baltimore, Md.	July 21, 1815
Richard A. Donaldson		
& Jos. L. Wheeler	Newark, N. J.	Sept. 25, 1815
John Green, sen.	Virginia	Mar. 5, 1816
Silas Dale	Cumberland, Mass.	May 28, 1816
John Owings	Baltimore, Md.	Sept. 9, 1816
Israel J. Richardson	Geneva, N. Y.	Sept. 26, 1816
Jos. B. Robinson	Cincinnati, O.	Oct. 14, 1816
William Purnell	Giles co., W. Tenn.	Jan. 19, 1817
Samuel Morey	Oxford, N. H.	Mar. 13, 1817
Benjamin Thomas	Washington City, D.C.	Mar. 20, 1817
Do tide		
Do wind and water, horizontal reversing		
Do water, spiral, by balance gates		
Do water, working by raising or lowering of tide		
Do do horizontal		
Do do machine for two wheels at a time		
Do mill	water, improvement on Farnham's	
Do mode of balancing		
Do mill, for grinding bark		
Do water, horizontal		
Do do		
Do do horizontal		
Do do and wind		
Do vertical horse		
Do water, horizontal		
Do do overshot		
Do do horizontal		
Do floating		
Do do valve		
Do inclined horse		
Do water, horizontal and perpendicular		
Do do tide and current		
Do do for mills		

LIST OF PATENTS—MILLS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Wheel, water, improvement on Rumsey's and McComb's	Theodore Burr	Burrhaven, Pa.	April 3, 1817
Do	Ira Griswold	Granville, Ct.	April 16, 1817
Do	James Wildfield	Philadelphia, Pa.	April 21, 1817
Do	Amos Thayer	Albany, N. Y.	July 7, 1817
Do	Moses Isaacs & John Wilbank	Philadelphia, Pa.	Oct. 14, 1817
Do	Alex. McKainy	West Tennessee	Feb. 10, 1818
Do	John Read	Lyne, Ct.	Mar. 6, 1818
Do	John Evans	Davies co., Ind.	April 21, 1818
Do	Amos Thayer	Albany, N. Y.	May 1, 1818
Do	John Edwards	Urbana, O.	May 25, 1818
Do	Moses Isaacs	Philadelphia, Pa.	May 28, 1818
Do	Arthur Henrie	Miami, O.	Oct. 28, 1818
Do	Asa Waters	Milbury, Mass.	Dec. 22, 1818
Do	John Palmer	Cincinnati, O.	Dec. 29, 1818
Do	Henry Beidleman	Washington co., Va.	Feb. 8, 1819
Do	John Ordroman	New York	April 26, 1819
Do	Thomas Eales	Newbury, Vt.	April 29, 1819
Do	George Deming	Burlington, Vt.	July 22, 1819
Do	Zach. Hiatt	Indiana	Aug. 20, 1819
Do	Moses Isaacs	New York	Nov. 17, 1819
Do	Edm'd C. Danly	Fredonia, Ind.	May 12, 1820
Do	Elisha Hale	Baltimore, Md.	July 5, 1820
Do	John M. Tilford	Rutherford co., Tenn.	Aug. 7, 1820
Do	N. Gates & A. Maxwell	Delhi, N. Y.	Sept. 13, 1820

Do water	pedal, horizontal	David Beauchamp	Elizabethtown, Va.	Oct. 10, 1820
Do do	and wind	J. J. Giraud	Baltimore, Md.	Feb. 3, 1821
Do do	oblique	William Gallup	Norwalk, O.	Mar. 29, 1821
Do do	improvement on Baker's chain, right and left	Ralph Bulkey	New York	Aug. 7, 1821
Do do	water, horizontal	Charles Goddard	Sabine Hall, Va.	Sept. 27, 1821
Do do	inclined	Ralph Bulkey	New York	Oct. 8, 1821
Do do	vertical tide	Horace Howard	Wooster, O.	Dec. 26, 1821
Do do	inclined, horse and water	George Lyman	Charles parish, La.	Mar. 4, 1822
Do do		Robert Leal	Delhi, N. Y.	May 31, 1822
Do water, vertical		Lee Wheeler, and T. Powell	Coxsackie, N. Y.	Dec. 6, 1822
Do do		John Maze	Greenbrier co., Va.	Jan. 10, 1823
Do do	crank	Adolphus Allen	Troy, Pa.	Feb. 8, 1823
Do do	water, iron	James Stedwell, 3d	Carmel, N. Y.	Nov. 25, 1823
Do do	sliding gear	P. J. Schuyler and E. D. Hitchcock	Stillwater, N. Y.	Dec. 20, 1823
Do do	hollow, inclined, horse inclined, horse	Sylvanus Guernsey J. Keller, and S. J. Burt	Fenner, N. Y.	April 12, 1824
Do do		John Bradford	Cincinnati, O.	April 23, 1824
Do do		N. H. Shaw	Lexington, Ky.	May 14, 1824
Do do		T. B. Van Gasbeck & B. Sands	Charlotte Hall, Md.	Oct. 9, 1824
Do do		Eb. Thompson	Kingston, N. Y.	Dec. 24, 1824
Do do		O. Lathan, L. Ben- nett, and J. Green	Manchester, N. Y.	Mar. 24, 1825
Do do		Abm. Lippitt	Oneida co., N. Y.	May 28, 1825
Do do	reacting lever	Luther Davis	Windsor, O.	Nov. 2, 1825
Do do	cog, suspended by machinery	James Cooper	Northampton, Mass.	Nov. 4, 1825
Do do	water, conical	Roswell Wilcox	Staunton, Va.	Mar. 22, 1826
Do do	inclined horse	Elias Holliday	Franklin co., O.	April 19, 1826
			Schoharie, N. Y.	May 6, 1826

LIST OF PATENTS—MILLS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Wheel, water, relieving from back water	-	-	-
Do do and flames	-	-	-
Do do applying a head of water, &c.	-	-	-
Do do saw mills	-	-	-
Do do -	-	-	-
Do do for saw and grist mills	-	-	-
Do do screw	-	-	-
Do water, screw	-	-	-
Do do -	-	-	-
Do do spiral	-	-	-
Do do -	-	-	-
Do do wind	-	-	-
Do do horizontal water	-	-	-
Do do hinged -	-	-	-
Do do supplying	-	-	-
Do for boats and mills	-	-	-
Do and paddle	-	-	-
Do current and tide chain	-	-	-
Do rolling on an inclined shaft	-	-	-
	J. Hines and E. D.	-	-
	McCord -	Sandy Hill, N. Y.	Nov. 20, 1829
	Stephen Merrick -	Madison co., N. Y.	Nov. 30, 1829

LIST OF PATENTEES—MILLS.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Avishe, John B.	South Carolina	Wind mill, horizontal	Mar. 16, 1803
A.ams, Rufus W.	Marlborough, Vt.	Mill, grist	Dec. 8, 1808
Abbott, Miles H.	-	Saw mill	Feb. 26, 1811
Andrews, Mark	Kennebec, Mass.	Water wheel by raising or lowering of tide, working	May 4, 1811
Atkinson, Jos.	Amherst, Mass.	Water wheel	Sept. 5, 1811
Alexander, Henry	Baltimore	Grinding ores into powder	Oct. 27, 1813
Andrews, John	Litchfield, N. Y.	Wheels, mode of balancing	May 27, 1814
Andrews, James	Philadelphia, Pa.	Bark, apparatus for preparing quecetron	July 15, 1816
Andrews, John	Dinwiddie co., Va.	Axis, vertical, ink and gudgeon for mills	Aug. 11, 1816
Aveilhe, Jean B.	New York	Mill, sugar	Aug. 28, 1817
Allen, Henry	Fayette co., Tenn.	Current and tide mill	Dec. 30, 1820
Allen, Adolphus	Troy, Pa.	Water wheel	Feb. 8, 1823
Ammon, Jac.	Rockingham, Va.	Water on water wheels, letting	June 8, 1827
Adams, Washington	Guilford, N. C.	Grist mill	July 18, 1827
Averill, Henry	Richland, N. Y.	Grinding grain and paints	April 30, 1829
Aikens, William A.	Berkshire, N. Y.	Flour and meal, bolting	Dec. 3, 1829
Barclay, John	Pennsylvania	Bark mill	July 19, 1794
Bettis, Cyrus	New York	Wheels, tide water	Mar. 18, 1797
Bruff, Thos., sen.	Maryland	Coffee mill	Jan. 8, 1798
Brewster, Walter	Connecticut	Water wheel, flume	June 7, 1798
Bolitho, Benj.	Pennsylvania	Rice and powder mill	Feb. 7, 1800
Bent, Cyrus	Ohio	Wheel, sub-water	Mar. 7, 1803
Blake, Anson	Lincoln, Ken.	Saw gauge setter for mills	Nov. 27, 1807
Bartlett, Samuel	East Windsor, Ct.	Rolling tub mills	July 19, 1808
Brown, William	Baltimore	Mill for breaking plaster	Dec. 8, 1808

Berrien, Rid.	New York	Feb. 13, 1809
Bakewell, Wm. L.	New Haven, Ct.	Aug. 18, 1809
Belknap, Stephen	New York	Dec. 28, 1809
Barum, Thos. G.	Sharon, Ct.	Jan. 18, 1810
Bailey, Jer.	Chester co., Pa.	Mar. 5, 1810
Brown, Ephm.	Mill, horse	April 10, 1810
Belknap, Stephen, and Samuel Merrill	Georgetown, D. C.	Feb. 15, 1811
Bolton, Amos	Fauquier co., Va.	June 19, 1812
Bailey, Jer.	Kennett's Square, Pa.	June 19, 1812
Bronwer, Samuel	New York	Nov. 27, 1812
Bissell, Luther	Hartwick, N. Y.	July 3, 1813
Bryant, Eb.	New London, Ct.	Feb. 8, 1814
Breastcd, Peter	Green co., N. Y.	April 18, 1814
Briggs, Jos.	Schoharie, N. Y.	July 9, 1814
Brewster, Samuel	Middlesex, N. J.	Oct. 30, 1815
Do	Do	Mar. 15, 1816
Barron, James	Elizabeth City, Va.	July 18, 1816
Burr, Theodore	Burrhaven, Pa.	April 3, 1817
Beidleman, Henry	Washington co., Va.	Feb. 8, 1819
Baldwin, Thomas	New Castle, Del.	June 22, 1819
Beauchamp, David	Elizabethtown, Va.	Oct. 10, 1820
Bulkey, Ralph	New York	Aug. 7, 1821
Brufl, John	Somerset co., Md.	Aug. 16, 1821
Bulkey, Ralph	New York	Oct. 8, 1821
Burns, Rob.	Mifflin co., Pa.	June 20, 1822
Bicknell, John	Buckfield, Me.	Dec. 11, 1822
Bisbee, Asa	N. Yarmouth, Me.	Jan. 27, 1824
Bradford, John	Lexington, Ky.	May 14, 1824
Bailey, Hy.	Hartford, Ct.	May 14, 1825
Berry, A. and C.	Poughkeepsie, N. Y.	Mar. 25, 1826
	Penulum and lever power	
	Saw mill, descending	
	Gate, mode of shutting water	
	Elevating grain, flour, meat, &c.	
	Water mills	
	Saw mill	
	Mill	
	Paints, machine for grinding	
	Head block for saw mill carriage	
	Saw mill, elevating	
	Grist mills	
	Mill, wind	
	Water wheel, improvement on Rumsey's and McComb's	
	Chain wheels	
	Snuff mill	
	Water wheel	
	Wheel, oblique water	
	Saw mill	
	Wheel, right and left chain	
	Mills, increasing the power of	
	Grinding grain	
	Extending power	
	Wheel, inclined horse	
	Mill, cast iron	
	Pendulum and lever power	

LIST OF PATENTEES—MILLS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Benedict, D.	Fabius, N. Y.	Water wheels, relieving from back water	May 10, 1826
Benjis, James	Worcester, Mass.	Grist mill, improvement on Bucknell's	Nov. 17, 1826
Berry, W. G., and J.	Cincinnati, O.	Saw mill, locomotive steam	Nov. 26, 1826
T. Osborn	Caswell, N. C.	Grist mill	Jan. 16, 1827
Bencine, Anthony	Guilford co., N. C.	Do	Jan. 19, 1827
Benslow, Wm.	Milton, N. C.	Saw mill	June 4, 1827
Bencine, Anthony	Tellico, Ten.	Propelling machinery by weights	Oct. 19, 1827
Broyles, Cain	Charlestown, Mass.	Water wheel, screw	Jan. 25, 1828
Beard, Eben.	Caroline, N. Y.	Bark mill	Mar. 27, 1828
Bull, Aaron	Sycamore Town' p O.	Water wheel	May 9, 1828
Bell, John	Ipswich, Mass.	Saw mill, curvilinear	Aug. 7, 1828
Baker, David	Mason co., Va.	Wheel, water, hinged	Dec. 19, 1828
Brown, Mathew D.	Statesburg, S. C.	Grist mill	Jan. 21, 1829
Baker, Thomas	Deerfield, N. Y.	Saw mill	April 7, 1829
Brown, George	Ogdensburg, N. Y.	Water wheels for boats and mills	April 21, 1829
Boynton, Paul	Pennsylvania	Mills	Aug. 24, 1797
Curtiss, Jona.	New York	Saw mill	Mar. 30, 1798
Clarke, Aaron	Do	Mills	Dec. 16, 1799
Chase, Hadilar	Pennsylvania	Mill, saw	April 1, 1802
Coates, Moses	Massachusetts	Mill wheel	Dec. 14, 1802
Cowen, James	Pennsylvania	Mill, paint	Dec. 3, 1803
Cest, Jacob	Georgetown, Del.	Mill, grist	May 2, 1805
Copes, Jos	Philadelphia, Pa.	Mill, wind	May 22, 1806
Couper, John	Walpole, N. H.	Pendulum applied to mill machinery	Mar. 1, 1809
Cobb, Isaac			

Cooke, Elisha	Bethlehem, Mass.	Sawing timber, &c., without a stub short	Jan. 20, 1810
Crossbie, Rid.	Newark, N. J.	Powder, granulating	Feb. 17, 1812
Christy, Rob.	Jefferson co., Va.	Elevator for raising fluids or grain	Nov. 21, 1812
Churchman, Caleb, and George Martin	Upper Chichester, Pa.	Mill, bark	July 16, 1813
Cooper, David	Jericho, N. Y.	Water wheel, improvement on Farnham's	May 12, 1814
Cornwell, Wm.	Accomack, Va.	Water wheel, horizontal	Dec. 15, 1814
Cohoon, Thomas	Washington City	Saw mill	Jan. 5, 1816
Cleaveland, Josiah	St. Mary's co., Md.	Tide mill	Oct. 22, 1816
Cornwell, Wm.	Accomack, Va.	Horse mill	Dec. 14, 1816
Collins, Daniel	Genesee co., N. Y.	Mill, saw	Jan. 6, 1818
Cooper, Peter	New York	Motion, rotary from alternate	April 6, 1820
Cooper, James	Staunton, Va.	Cog wheels, suspended by machinery	Mar. 22, 1826
Coburn, William	Gardiner, Me.	Mills, wind	June 2, 1826
Coe, Avery and John	Guildford co., N. C.	Grist mill	July 21, 1827
Call, Isaiah	Woodstock, Vt.	Saw mill	April 28, 1828
Crail, Jos.	Warren, O.	Grist mill	June 19, 1828
Cook, Samuel	Mendon, Mass.	Paint mill, trunked mouth	Mar. 3, 1829
Carrington, James	Wallingford, Ct.	Coffee mills	April 3, 1829
Chase, Mark L.	Frankfort, Me.	Grist mill	Dec. 23, 1829
Dickerson, Jonathan	Morris co., N. J.	Tide mills	July 30, 1791
Dawson, Robert	Delaware	Bolting cloth	May 12, 1796
Dulheur, Henry	South Carolina	Saw mill	Aug. 18, 1797
Dearborne, Benj.	Massachusetts	Mill, double centred	April 30, 1799
Du Pont, E. J. Demones	Wilmington, Del.	Powder, granulating	Nov. 23, 1804
Dupree, Lewis	Charleston, S. C.	Screw, pendulum	April 11, 1807
De Lacy, John	New York	Saw, grist, and other mills; improvement in working	Mar. 28, 1812
Danielson, Asa	Otsego, N. Y.	Wheels, using successively, letting water on	May 16, 1815
Donaldson, Richard A., and Jos. L. Wheeler	Newark, N. J.	Wheel, horizontal water	Sept. 25, 1815
Dalmas, Charles	Wilmington, Del.	Gunpowder, granulating	April 26, 1816

LIST OF PATENTEES—MILLS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Dalie, Silas	Cumberland, Mass.	Water wheel, horizontal	May 28, 1816
Deming, George	Burlington, Vt.	Wheel, horizontal	July 22, 1819
Danley, Ed. C.	Fredonia, Ind.	Cog wheels, elliptical	May 12, 1820
Dennis, Rob.	Rahway, N. J.	Steam power, applying to circular motion	Nov. 3, 1825
Davis, Luther	Northampton, Mass.	Wheel, reacting lever	Nov. 4, 1825
Delap, Abn., and Avery Eve	Guilford co., N. C.	Grist mill	May 31, 1827
Demison, James	Lancaster township, O.	Water wheel for saw and grist mill	Aug. 22, 1827
Evans, Oliver	Philadelphia, Pa.	Manufacturing flour and meal	Dec. 18, 1790
Do	Pennsylvania	Stones, hurr mill	May 28, 1796
Do	Do	Screw mill for breaking and grinding hard substances	Feb. 14, 1804
Do	Philadelphia, Pa.	Flour, manufacturing	Jan. 22, 1808
Ennalls, Jos.	New Market, Md.	Saw and grist mill	April 10, 1810
Evans, Oliver	Philadelphia, Pa.	Mill, saw	April 15, 1811
Ewing, John, and David Dickey	Oxford, Pa.	Pump for elevating meal, grain, &c.	Oct. 2, 1813
Ewell, Thomas	Georgetown, D. C.	Powder, manufacturing	Dec. 7, 1813
Elder, John	Hamilton, Mass.	Saw mill for dye woods	Feb. 16, 1816
Elicot, Thomas	Pennsylvania	Mill, grist	Feb. 17, 1816
Elder, John	Hamilton, Mass.	Saw mill for dye woods	April 11, 1816
Evans, John	Davies co., Ind.	Wheel, water	April 21, 1818
Edwards, John	Urbana, O.	Do do	May 25, 1818
Eales, Thomas	Newbury, Vt.	Do do	April 29, 1819
Etienne, Pierre	New York	Wind mill	Nov. 14, 1820
Elliot, James	Philadelphia, Pa.	Bark mill	May 24, 1822

Eddy, Isaac	Boston, Mass.	Paint and drug mill	Mar. 19, 1824
Eve, Joseph	Augusta, Geo.	Power by metallic bands, communicating	May 1, 1828
Epsy, J.P., & A. Young	Philadelphia, Pa.	Water, drawing from forebays, and discharging on water wheels	Sept. 11, 1829
Ely, James C.	New York	Saw mill, floating	Oct. 21, 1829
Farnham, Joel	Otsego, N. Y.	Water wheel, improvement on McComb's reacting	Nov. 23, 1808
Ford, Eb.	Charleston, S. C.	Floating mill and silent fisher	Dec. 21, 1809
Frisbie, Jeremy	Pennsylvania	Mills, constructing	June 30, 1810
Fountain, D. & Minor	Eastern Shore, Md.	Mill, saw	April 5, 1817
Fettrow, And.	York, Pa.	Plaster mill	May 28, 1818
Foster, A. W., and J. Hugus	Greensburg & Hempfield, Pa.	Rotary from rectilineal motion	April 26, 1819
Fulton, Gardner	Philadelphia, Pa.	Gunpowder, granulating	Aug. 21, 1819
Fowkes, Samuel	Catskill, N. Y.	Mil, vertical cylindrical foot	Sept. 13, 1824
Fletcher, Jabez B.	Richmond, Me.	Flume for water wheels	Feb. 16, 1825
Fowkes, Samuel	Catskill, N. Y.	Grinding and shelling corn	May 4, 1825
Flagg, David, Jr.	Gardiner, Me.	Mill, family	Feb. 23, 1826
Foss, Cotton	Madison, O.	Bark mill	Oct. 25, 1826
Forwood, William W.	Hartford co., Md.	Grist mill	June 15, 1827
Greene, Caleb	Massachusetts	Mill, paint	July 23, 1801
Goodwin, Samuel	Baltimore, Md.	Wind mill, horizontal	Oct. 31, 1803
Geer, Uzziel	Norwich, Ct.	Do do	July 18, 1808
Goulding, Jos.	Leicester, Mass.	Mills	Mar. 1, 1811
Gale, Luther	Berkshire co., Mass.	Mill, bark	Mar. 20, 1811
Gore, Samuel K.	Bradford co., Pa.	Saw mill, travelling saw cut	May 4, 1812
Grannis, John	Cheshire, Ct.	Horse mill by using weights	May 12, 1812
Grandin, William	Hector, N. Y.	Mil, pendulum	Jan. 6, 1813
Gale, Luther	Lenox, Mass.	Bark mill	May 16, 1815
Green, John, sen.	Virginia	Water wheel, overshot	Mar. 5, 1816
Griswold, Ira	Granville, Ot.	Wheel, water	April 16, 1817

LIST OF PATENTEES—MILLS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Gates, Nath'l, & Alex.		Tide wheel	Sept. 13, 1820
Maxwell	Delhi, N. Y.	Wheel, horizontal pedal water	Feb. 3, 1821
Giraud, J. J.	Baltimore, Md.	Wind and water wheel	Mar. 29, 1821
Gallup, William	Norwalk, O.	Wheel, Baker's water	Sept. 27, 1821
Goddard, Charles	Sabine Hall, Va.	Tide or current mill	Sept. 25, 1822
Gray, George H. D.	Southampton, Va.	Wind mill machinery	Dec. 31, 1822
Gue, John	Watertown, N. Y.	Water wheel, sliding gear	April 12, 1824
Guerney, Sylvanus	Fenner, N. Y.	Steam, wind, and water, applying as a power	Mar. 25, 1826
Garretson, Isaac	Bellefontaine, O.	Saw mill, improvement on Johnson's	Sept. 28, 1827
Graham, Anson B.	Lee, Mass.	Horse mill lever	Mar. 6, 1828
Calbraith, John	Maury co., Tenn.	Water pressure for propelling machinery	Mar. 10, 1828
Gibbs, George M.	Williams parish, S. C.	Water wheel	June 5, 1828
Greenleaf, Abel	Mexico, N. Y.		
Hodge, Sol'n, & Jona.	Washington, N. Y.	Hand mill for picking mill stones	Oct. 23, 1792
Dorr	Vermont	Wind mill	Mar. 15, 1798
Holden, Charles	Massachusetts	Do	Jan. 20, 1802
Hathaway, Rufus	Connecticut	Grist mill	Mar. 27, 1802
Holly, John W.	Wallingford, Ct.	Sluice and cast iron wheels	May 10, 1805
Humiston, James, jr.	Middlebury, Vt.	Wheel, water	May 1, 1806
Hubbel, Ephraim	Haverhill, Mass.	Grist mill	Feb. 22, 1807
Hale, Ez.	Lancaster, Pa.	Mills	May 21, 1807
Hamaker, Christ'n	Shaftsbury, Vt.	Saw mill, circular	Nov. 24, 1809
Huling, George	Philadelphia	Saw mill to work by horse, hand, or other power	May 3, 1810
Harris, George			

Hinman, Luke C., Luther Bissel, & Moses Barnes	Hart, Josiah, & Lester Flings	Hart, Webb	Homan, Dan'l	Hopkins, Samuel	Hort, Benjamin S.	Hershe, Abm.	Hart, Webb	Hopkins, Samuel	Herrick, Samuel	Henrie, Arthur	Hiatt, Zach'l	Hale, Elisha	Howard, Horace	Haseall, J. D.	Huckaby, Brittan	Hord, E., & B. Brown-ing	Holliday, Elias	Harris, F., & J. Wilson	Holcomb, Allen	Hilderbrand, Mich'l	Holland, Samuel	Houghton, Jno.	Howard, Benjamin	Hines, J., & E. D.	McCord	Horford, William, jr.
Otsego, N. Y.	Cheshire, N. H.	Cheshire, Ct.	Brookhaven, N. Y.	Rahway, N. J.	Georgetown, S. C.	Lancaster, Pa.	Accomack, Va.	Philadelphia	Clermont co., O.	Miami, O.	Indiana	Baltimore	Wooster, O.	Likay, N. Y.	Huntsville, Ala.	Fleming co., Ky.	Schoharie, N. Y.	Albany, N. Y.	Butternuts, N. Y.	McMinn co., Tenn.	Hanover, O.	Green co., Ga.	Worcester, Mass.	Sandy Hill, N. Y.	Washington town p, O.	
June 7, 1811	Saw mill, save all	Saw mill	Sifting meal	Mustard, preparation of flour	Flood gate	Hopper filler for bolting flour	Machinery, application of horse power to	Mustard, preparation of flour of	Saw gate, machine for giving motion	Water wheel, canal, race, and inclined plane	Wheel, perpendicular spiral	Wheel, water	Wheel, horizontal water	Grist mill	Running gear for mills	Flour, preserving	Wheel, inclined horse	Grist mill	Mill, paint	Water wheels, letting water on	Grist mill	Water wheel, supplying water to	Water and paddle wheels.	Chain wheel	Power machine	
	Jan. 18, 1812	May 26, 1812	Mar. 8, 1813	Aug. 19, 1813	Oct. 9, 1813	Jan. 16, 1814	Jan. 22, 1817	May 31, 1817	July 21, 1817	Oct. 28, 1818	Aug. 20, 1819	July 5, 1820	Dec. 26, 1821	Mar. 9, 1822	Aug. 16, 1824	Mar. 12, 1825	May 6, 1826	June 9, 1826	May 14, 1827	Nov. 10, 1827	Mar. 1, 1828	Jan. 13, 1829	June 11, 1829	Nov. 20, 1829	Dec. 31, 1829	

LIST OF PATENTEES—MILLS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Johnson, John	Knox co., Ind.	Wheel, sub water	Mar. 21, 1808
Ives, Fitch	Lisle, N. Y.	Spiral float mill wheel	July 5, 1809
Johnson, John	Charleston, S. C.	Flexible platform, to give motion to wheels, &c.	Nov. 22, 1809
Jones, Adonijah, jr.	Bethlehem, Mass.	Sawing timber	Mar. 14, 1810
Isaacs, Moses, & John	Philadelphia, Pa.	Wheel, horizontal, inclined	Oct. 14, 1817
Wilbank	Do	Wheel, wind	May 28, 1818
Isaacs, Moses	New York	Wheel, inclined circular plane	Nov. 17, 1819
Do	Do	Mill, grist	Dec. 2, 1825
Ives, Jos.	Villenovia, N. Y.	Mill, saw	Feb. 8, 1826
Johnson, Israel, jr.	New York	Saw mill, horse	Oct. 25, 1826
Johnson, Sol. R.	Montreal, Canada	Pendulum motion for machinery	Dec. 29, 1826
Jacob, Justin	New Castle, Del.	Wind mill, horizontal	Feb. 16, 1827
Jones, Thomas P.	Sanbornton Bridge,	Do	
Ingalls, Walter	N. Hampshire	do	
Johnson, Israel, Jr.	Moriah, N. Y.	Saw mill	Aug. 19, 1828
Keyser, Henry	Philadelphia, Pa.	Gunpowder, manufacturing	May 7, 1829
Keyser, George	Do	Mill, powder	Aug. 10, 1791
Kent, Emanuel	Baltimore, Md.	Mill, plaster	July 27, 1803
Kelsey, Israel	Hartford, Ct.	Mill, horizontal	Sept. 14, 1804
King, Jesse	Florida, N. Y.	Potatoes, machine for grinding	Aug. 25, 1809
Kells, Jos.	New York	Constant motion from irregular power	Mar. 1, 1814
Keller, J., & S. J. Burt	Cincinnati, O.	Wheel, hollow, inclined, horse	April 1, 1815
Kendall, William, jr.	Waterville, Me.	Motion, extending and multiplying power	April 23, 1824
Key, Thomas	Henry co., Ga.	Water wheels, letting water on	Jan. 16, 1826
			July 18, 1826

Kendall, William	Waterville, Me.	Saw mill, reciprocating	Nov. 23, 1827
Do	Do	do	Dec. 31, 1827
Kelly, James	Jackson co., O.	Water wheel, spiral	Feb. 21, 1828
King, John F.	Waterford, N. Y.	Paddle gate	Nov. 29, 1828
Kemp, Benjamin M.	Fort Plain, N. Y.	Grist mill	Jan. 31, 1829
La Paype, (Paine)	Baltimore, Md.	Cattle mill	Nov. 4, 1805
Lewis, Marshall	Chenango, N. Y.	Saw mill	May 24, 1811
Lathrop, Rufus	West Springfield, Ms.	Mill wheel	Nov. 12, 1812
Loring, David	Canandaigua, N. Y.	Wheel heads	Dec. 31, 1813
Lucas, Jona.	Charleston, S. C.	Flood gates	Nov. 6, 1819
Lyman, George.	Charles parish, La.	Wheel, inclined	Mar. 4, 1822
Leah, Robert	Delhi, N. Y.	Vertical tide wheel	May 31, 1822
Langdon, B., & J. C. & J. Trash	Troy, N. Y.	Grain, grinding	Sept. 26, 1823
Lathan, O., L. Bennett, & J. Green	Oneida co., N. Y.	Wheel, horizontal water	May 28, 1825
Lippitt, Abm.	Windsor, O.	Do do do	Nov. 2, 1825
Lawing, S., & J. Monteith	Statesville, N. C.	Grist mill, improvement on Mendenhall's	June 11, 1827
Macomb, James	Princeton, N. J.	Wheels for mills, horizontal water	Aug. 26, 1791
McKean, Rob.	New Jersey	Steam saw mill	Mar. 24, 1798
Martin, John A.	New York	Wheel, regulating spiral tide	April 27, 1798
Morton, John A.	Hartford, Ct.	Mill, wind	Dec. 16, 1801
McLean, Charles, and Sol. Loomis	Madison co., N. Y.	Mills, tub	Sept. 25, 1805
Merrick, Stephen	Pennsylvania	Wheel, rolling in an inclined shaft	Nov. 30, 1808
Mans, Samuel, & Jerry Black	Brookfield, N. Y.	Mill works	Feb. 18, 1809
Miller, Jos. L.	Saratoga co., N. Y.	Mill, screw grist	Mar. 29, 1810
Miner, Jonathan	Lampeter, Pa.	Water wheels for mills	April 2, 1810
Miller, William		Mill stone	Aug. 15, 1811

LIST OF PATENTEES—MILLS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Mack, Elisha	Sheffield, Mass.	Water wheel	Nov. 2, 1811
Maher, William	Rome, N. Y.	Gate, balance water	Nov. 12, 1811
Mayo, William	Henrico, Va.	Grinding corn in the cob	May 15, 1812
Moore, Alex. D.	New Haven co., N.C.	Grinding and pounding	Aug. 7, 1813
Morgan, Elisha	Clinton co. N. Y.	Mill, saw	Jan. 24, 1815
Morey, Samuel	Boston, Mass.	Water power, application to water wheels	July 14, 1815
Morton, John A.	Baltimore, Md.	Horse wheel, vertical	July 21, 1815
Mallory, Meredith	Benton, N. Y.	Water power to machinery	Mar. 3, 1817
Morey, Samuel	Oxford, N. H.	Tide and current water wheel	Mar. 13, 1817
Mott, Edward	Philadelphia, Pa.	Friction, preventing, or anti-attrition	Oct. 4, 1817
McKarny, Alex.	West Tennessee	Water wheel, spiral screw	Feb. 10, 1818
Mantler, Grafton	Londonderry, N. H.	Millstones, casting faces	Dec. 8, 1818
Moody, Nathan	Hallowell, Mass.	Motion, alternate lateral	Feb. 19, 1819
R. McKee, Jr.	East Hartford, Ct.	Gunpowder	April 19, 1822
Messer, Asa	Providence, R. I.	Flumes for mills	Nov. 19, 1822
Maze, John	Greenbrier co., Va.	Wheel, vertical water	Jan. 10, 1823
Mollineux, Jesse	North Hempstead, N.Y.	Wind mill	Jan. 24, 1823
Malby, Benjamin	New York	Horse power applied to machinery	April 11, 1825
McIntosh, W. W., and			
William Barnheart	Aurelius, O.	Pendulum power regulated by fly wheel	April 13, 1825
Messer, Asa	Providence, R. I.	Water wheels and flumes, constructing	May 18, 1826
McKenzie, D., M. L.			
Barbor, S., Dean, &	Caledonia, N. Y.		
J. McNaughton		Water wheels, applying a head of water to any number of	June 19, 1826

Mendenhall, Moses	Greensburg, N. C.	Mill, grist	Oct. 20, 1826
Morse, John G.	Randolph co., N. C.	Grist mill, crusher and sheller	Mar. 20, 1827
McCulluch, Rob & Thos.	Alethmarie co., Va.	Water power, application to wheels	May 26, 1827
Moore, Sidney & Porteus	Mount Tirzah, N. C.	Mill, sugar loaf grist	June 15, 1827
Montgomery, John	Sangerfield, N. Y.	Bark mill	May 29, 1828
Murray, Abner	Athens, Pa.	Wind mill	July 8, 1828
Medley, Reuben	Bloomfield, Ky.	Grist mill	Sept. 5, 1828
McColler, David	Hudson, O.	Wind mill	May 2, 1829
Madison, Asa	Detroit, Mich.	Current and tide wheel	July 10, 1829
Mitchell, Rob.	Cynthiana, Ky.	Power applied to machinery, horse, water, or steam	Oct. 10, 1829
Newberry, Josiah W.	Luzerne, Pa.	Mills, application of water power to work	June 23, 1829
Norcross, Leon'd	Livermore, Me.	Millstones, machine for dressing	May 6, 1829
Nichols, Reuben	New Orleans	Sawing timber by steam power	July 21, 1829
Northorp, Jedediah	Woodbridge, Ct.	Mill, grist	July 31, 1829
Newman, Thomas	Guilford co., N. C.	Do do	Feb. 6, 1827
Neer, Charles	Watertown, N. Y.	Spur for bevel gearing	Mar. 9, 1827
Old, Ezra, and Pliny	Worcester, Mass.	Saw mill	Dec. 24, 1809
Upham	Litchfield, Ct.	Water wheel, horizontal	May 29, 1811
Osborn, John, Jr.	Prince George co., Va.	Saw mill to be worked by animal power	Oct. 1, 1812
Owen, Ethan	Baltimore, Md.	Water mill	Jan. 25, 1814
Owings, John	Meriden, Ct.	Bark mill	April 18, 1814
Olds, Jared			
Ormsby, John, and T.	Washington City, D.C.	Grist mill	Jan. 4, 1816
Cohoon	Baltimore, Md.	Wheel, floating	Sept. 9, 1816
Owings, John	New York	Wheel, balance or fly	April 26, 1819
Ordromant, John	-	Crank, anti-friction	Mar. 9, 1821
Oliver, Benjamin L.	Salem, Mass.	Grist mill	Feb. 28, 1827
Overmore, Benjamin	Greensborough, N. C.	Do	Dec. 11, 1827
Do	Boston, Mass.	Saw mill	Jan. 26, 1793
Pope, Jos.	New York	Mill, wind	Dec. 2, 1799
Payne, Thomas		Mill, saw	

LIST OF PATENTEES—MILLS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Palmer, William	New York	Stone saw mill	Dec. 31, 1802
Paine, Asahel E.	Do	Wind mill	Nov. 19, 1803
Pryor, Thos. W.	Philadelphia, Pa.	Bark mill	May 21, 1805
Pease, Ob., and Asher	Norfolk, Ct.	Bark and dye wood mill	Mar. 18, 1806
Donalds	Newbury, Mass.	Bark mill	Sept. 22, 1808
Pilsbury, Paul	Redding, Ct.	Water wheel, horizontal	Nov. 20, 1809
Parmelee, David	Philadelphia, Pa.	Wheel head, accelerating	July 20, 1811
Putnam, Archelaus	Kennett's Square, Pa.	Mill, wind and water	Feb. 18, 1812
Pennock, Moses	Newburyport, Mass.	Mill, water	June 26, 1813
Parkins, Jas.	Lyne, N. H.	Wheel mill for grinding bark	Sept. 30, 1814
Pelton, David	Westestown, N. Y.	Water wheels	April 26, 1815
Peck, George	Giles co., W. Tenn.	Wheel, horizontal and perpendicular water	Jan. 10, 1817
Pinnell, William	Cincinnati, O.	Wheel, inclined	Dec. 29, 1818
Palmer, John	New York	Wind mills	June 24, 1822
Phœbus, William	Newton, Mass.	Motion of machinery, changing	Mar. 15, 1825
Petfee, Otis	Ontario, N. Y.	Mill, wind	Aug. 31, 1826
Padley, Moses	Christiansburg, Va.	Water gate for penstocks or flumes	Jan. 9, 1827
Potes, Heinly	Wilmington, Vt.	Paint mill, horizontal cast iron	Feb. 12, 1827
Packard, Origen	Do	Water gates, opening and shutting	Feb. 12, 1827
Do	Jefferson co., Miss.	Millstone	April 3, 1829
Philips, David	Washington, D. C.	Mill, iron	April 11, 1829
Post, C. and J. W.	WHEELING, Va.	Grist mill	July 31, 1829
Parkinson, William	Boston, Mass.	Saw mill	April 25, 1806
Quimby, Jos.	Do	Mill, regulated	Feb. 3, 1812

Quinn, Henry	Huntington, N. J.	Saw mill	Feb. 21, 1815
Quidor, Peter, jr.	New York	Wind, water, and tide mills	Mar. 21, 1822
Rumsey, James	Berkeley co., Va.	Mill, improvement in Barker's	Aug. 26, 1791
Do	Do	Working mills	Aug. 26, 1791
Ring, Elias	New York	Spiral tide water wheel	Dec. 10, 1797
Reed, Ezekiel	Massachusetts	Water wheel, horizontal	Feb. 14, 1799
Co Richardson, Her. and			
Levi Richardson	Do	Saw mill	April 28, 1802
Rew, Ephraim	Canandaigua, N. Y.	Mill wheel	Feb. 22, 1809
Reuk, Aaron	Chillicothe, Ohio	Water wheels for mills	Dec. 5, 1810
Rich, Joseph	Madison co., N. Y.	Flour, manufacturing	Jan. 27, 1812
Richardson, Jos., and			
Benj. Stout	Bucks co., Pa.	Bark, grinding and packing	June 6, 1812
Reynolds, Thos.	West Fallowfield, Pa.	Mill stones, machinery for raising	Nov. 8, 1814
Rittal, Francis	Lincoln, Mass.	Tide mill	Jan. 28, 1815
Reynolds, Jona.	Dutchess, N. Y.	Wind and water wheel	June 24, 1815
Richardson, Israel J.	Geneva, N. Y.	Wheel, floating valve	Sept. 26, 1816
Robinson, Jos. B.	Cincinnati, Ohio	Wheel, inclined horse	Oct. 14, 1816
Read, John	Line, Ct.	Wheel, trailing	Mar. 6, 1818
Rogers, Daniel	Newburgh, N. Y.	Gunpowder, granulating	Aug. 26, 1818
Redheffer, Charles	Philadelphia, Pa.	Power gaining machinery	July 11, 1820
Richardson, Wm. H.	Baltimore, Md.	Gunpowder, granulating	Aug. 3, 1822
Rice, Wanton	Athens, Pa.	Mill, cast iron spindle grist	Oct. 1, 1823
Ryon, Isaac	Bridgewater, Mass.	Mill, saw	Nov. 24, 1825
Do	Do	Mill, grist	June 29, 1826
Reynolds, Jona.	Amenia, N. Y.	Mill, horizontal	Mar. 15, 1827
Rice, Lewis	Clarksborough, N. J.	Sack shoulderer	Aug. 3, 1827
Robinson, James	Buckskin Town'p, O.	Grist mill	Dec. 11, 1827
Ridgway, Benj. S.	Charleston, S. C.	Mill machinery, impelling power of	Feb. 6, 1829
Reynolds, Sullivan	Guildford, N. Y.	Boxes for all kinds of machinery, cast and wrought iron or wood	June 13, 1829

LIST OF PATENTEES—MILLS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Reeder, Jesse	Lebanon, Ohio	Milling	Oct. 31, 1829
Saltonstall, G. F.	North Carolina	Meal, cooling and conveying up	Aug. 21, 1801
Sharples, James	New York	Wheels within cylinders	Sept. 15, 1801
Do	Do	Mills, wind	Sept. 15, 1801
Saltonstall, G. F.	North Carolina	Saw mill, and for cleaning cotton	Jan. 4, 1803
Staples, John, jr.	New York	Tide motion applied to machinery	Mar. 18, 1803
Do	Do	Mill wheel	Feb. 17, 1804
Stanton, Wm., jr.	Lynchburg, Va.	Wind mill	Dec. 26, 1804
Spafford, Jacob	Ipswich, Mass.	Mill, saw	June 23, 1807
Smith, William	Gloucester, N. J.	Wheel for elevating water for mills	Aug. 12, 1808
Stubbs, William	Chillicothe, O.	Wheel, tide or river	May 1, 1809
Sweet, John	Bethlehem, Mass.	Sawing timber, &c., without a stub short	Feb. 15, 1810
Sawin, John P., and	Roxbury, Mass.	Mill, tide	May 17, 1810
Jacob Skinner	Do	Friction cylinders, co-operating	Jan. 24, 1811
Sawin, John P.	Lynchburg, Va.	Water wheel by balance gates, spiral	April 25, 1811
Schoolfield, Benj., and	Adams co., Va.	Flour, worm for cooling	May 6, 1813
William Stanton	Chester, Vt.	Grist mill	July 20, 1813
Smelzer, John	Cape May, N. J.	Saw mill, wind	Dec. 27, 1815
Sawyer, Abn.	Queen's co., N. Y.	Wheel, letting water on flutter	July 1, 1817
Springer, Jesse	Wilkes co., Geo.	Motion from one wheel to another, communicating	Feb. 19, 1818
Smith, Jarvis	Cincinnati, O.	Coffee mill	June 9, 1818
Simpson, William	New London, Ct.	Do	June 12, 1818
Smith, Burrows			
Sizer, Jona, adm'r of			
Zach, Waterhouse			

Sands, Abm.	Georgetown, D. C.	Water wheel	Aug. 28, 1811
Skinner, Elijah	Sandwich, N. H.	Paint mill	Dec. 28, 1818
Sears, Nathan	Hudson, N. Y.	Bark, machine for breaking	Oct. 31, 1820
Sanford, William	New York	Horse mill	April 5, 1821
Seal, Robert	Delhi, N. Y.	Wheel, vertical tide	May 31, 1822
Savage, John Y.	Raleigh, N. C.	Rectilinear into rotary motion	Aug. 9, 1823
Smith, Archibald	Rhinebeck, N. Y.	Do	Aug. 30, 1823
Stedwell, James, 3d	Carmel, N. Y.	Wheel, crank	Nov. 25, 1823
Schuyler, P. J., and E. D. Hitchcock	Stillwater, N. Y.	Wheel, iron water	Dec. 20, 1823
Sullivan, Wm. C.	Jefferson co., Ind.	Horizontal double rotary machine	June 5, 1824
Stevens, John	E. Hoboken, N. J.	Rendering rapids and shallow rivers navigable	June 8, 1824
Shaw, N. H.	Charlotte Hall, Md.	Wheel, an inclined propelling	Oct. 9, 1824
Sperry, Samuel	Nashville, Tenn.	Water wheels, letting water on	Nov. 9, 1824
Sawyer, J., and E. Clark	Royalston, Mass.	Mill stones, concave and convex	Mar. 18, 1826
Stockman, Moody	Hampton, N. H.	Grist mill, improvement on Bicknell's	April 18, 1826
Shute, Thomas	Tennessee	Water wheel for saw mills	Mar. 6, 1827
Stanton, William	Centre Township, Pa.	Propelling machinery of all kinds	April 23, 1827
Spedden, Robert	Talbot, Md.	Tide mill	Aug. 1, 1827
Skinner, Elijah	Sandwich, N. H.	Water wheel, screw	Sept. 11, 1827
Smith, J., and Wm. Sapp	Mount Vernon, O.	Grist mill	Sep. 9, 1828
Steuart, James	Robertson co., Ten.	Flutter wheels, application of water to	Oct. 24, 1828
Thompson, Thos.	New Jersey	Wind mills, regulating	Jan. 3, 1799
Tyler, Benj.	New Hampshire	Mill, grist	Feb. 20, 1800
Do	Clarendon, N. H.	"Wry fly" for mill machinery	Mar. 19, 1804
Tobey, Corns.	Hudson, N. Y.	Mill, bark	May 7, 1807
Thayer, Solomon	Braintree, Mass.	Mill, pendulum	Oct. 9, 1811
Tisdal, Ephm.	Windham, Ct.	Screen for cleaning grain, brushing	July 17, 1815
Thomas, Benj.	Washington City, D. C.	Water wheel for mills	Mar. 20, 1817

LIST OF PATENTEES—MILLS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Thayer, Amos	Albany, N. Y.	Water wheel	July 7, 1817
Do	Do	Water power, application to machinery	May 1, 1818
Tifford, John M.	Rutherford co., Ten.	Water wheel	May 1, 1818
Tolson, Alex.	Georgetown, D. C.	Wheel, vertical horse	Aug. 7, 1820
Trask, E. and J.	Sangerfield, N. Y.	Mill, pulverising bark	June 2, 1821
Thompson, Eb.	Manchester, N. Y.	Bark mill	Nov. 22, 1821
Thomas, Rob. S.	Rockingham, N. C.	Wheel, horizontal water	Mar. 24, 1825
Turner, Wm. A.	Plymouth, N. C.	Grist mill	June 4, 1827
Taylor, Nathan	Urbana, N. Y.	Do	June 27, 1827
Torrey, William	Westbrook, Me.	Bush for mill stone	July 23, 1827
Taylor, William L.	McMinn, Ten.	Mill, cast iron bark	Sept. 18, 1827
Torrey, Joseph	Ravenna, O.	Grist mill	Jan. 28, 1828
Thompson, Orpheus	Jericho, Vt.	Water wheel	Feb. 28, 1828
Temple, Alex.	Brookfield, O.	Do	Dec. 6, 1828
Underwood, Wm.	Herkimer, N. Y.	Grist mill and spiral water wheel	Dec. 11, 1829
Valcourt, Lewis	Louisville, Ky.	Sawing timber without a stub short, carriage block	Sept. 6, 1810
Van Voorhis, Danl.	Long Island, N. Y.	Mill machinery	June 25, 1805
Vansant, Abner	Jefferson co., Miss.	Wheel, reversing wind and water, horizontal	Mar. 21, 1811
Van Gasbeck, T. B., and B. Sands	Kingston, N. J.	Water power by spiral wheels	Sept. 29, 1823
Warrell, Isaac	Pennsylvania	Water and tide wheel	Dec. 24, 1824
Weems, Richard	Annapolis, Md.	Bark, grinding and cutting	Mar. 17, 1802
Willard, Simon, jr.	Hudson, N. Y.	Wind mill	Sept. 20, 1804
Wells, John J.	Hartford, Ct.	Water wheel	Dec. 1, 1807
		Mill, paint	June 13, 1809

Wright, Abel	Canaan, N. Y.	Mill, saw	Mar. 7, 1810
Russel H.	Boston, Mass.	Mills, wind	April 25, 1810
Wheeler, Dexter	Bristol, Mass.	Tide wheel	Mar. 2, 1811
Wolverton, Charles, & Ben. Ridgeway, jr.	Morris Villa, Pa.	Millstones, machine for dressing Elevator, conveyor, hopper boy	May 24, 1811
Walgemore, Samuel	Washington, D. C.	Saw mill	Feb. 22, 1812
Whitecomb, Hiram	Cornwall, Ct.	Gudgeon for mill	Mar. 2, 1813
Withers, Mich'	Strasburg, Pa.	Gunpowder, granulating	Aug. 24, 1813
Worsey, Jos.	Berne, N. Y.	Water wheel, horizontal	Feb. 21, 1815
Wood, James	Mount Pleasant, N. Y.	Water wheel, perpetual	June 19, 1815
Widdifield, James	Philadelphia, Pa.	Coffee mill	April 21, 1817
Wilson, Increase	New London, Ct.	Water wheel, spring bucket	Mar. 6, 1818
Waters, Asa	Milbury, Mass.	Saw mill	Dec. 22, 1818
White, Thomas	Chester, S. C.	Wheel, inclined horse and water	April 27, 1822
Wheeler, Leo, & T.	Coxsackie, N. Y.	Mill for hulling, grinding, &c.	Dec. 6, 1822
Powell	Manlius, N. Y.	Crank wheel motion	Aug. 27, 1824
Wilson, John	Columbia, S. C.	Flour from becoming sour, preserving	Sept. 25, 1824
Wallace, James	St. Clairsville, O.	Saw mills	Dec. 4, 1824
Wood, William, jr.	Ithaca, N. Y.	Horse mill	Nov. 1, 1825
Whitney, Eb.	Saugerties, N. Y.	Wheel, conical water	April 15, 1826
Warren, Admiral	Franklin co., O.	Gear screw for mills	April 19, 1826
Wilcox, Roswell	Warren co., N. C.	Grinding corn machine	April 24, 1826
Wortham, Charles	Philadelphia, Pa.	Water wheel	July 31, 1826
Webster, Jarvis	Coridon, Ind.	Grist mill	June 7, 1827
Wilson, John D.	Saugerties, N. Y.	Do	Mar. 12, 1828
Warren, Admiral	E. Fairfield, O.	Tide or current mill	Aug. 29, 1829
Wickersham, Job, and T. Crozer	Hartford, Ky.	Tide power	Sept. 11, 1829
Wallace, Jos.	New York	Do	Dec. 23, 1829
Western, Henry M.			

LIST OF PATENTS—LEVER AND SCREW POWER.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Balance, perpetual	Russel H. Wright	Boston, Mass.	June 9, 1810
Do Columbian	William Granger	Middlebury, Vt.	Sept. 8, 1810
Do improvement on Dearborn's	Sol'n A. Rogers	Geneva, N. Y.	July 31, 1817
Do	Henry Dearborn	Boston, Mass.	Mar. 24, 1819
Do	David Rogers	Auburn, N. Y.	July 13, 1824
Do improvement on Dearborn's	Samuel Blaisdell	Lancaster, O.	Oct. 10, 1827
Ball stocks, printer's	John Babcock	New Haven, Ct.	Mar. 18, 1818
Blocks used in stereotype printing	Matthew Smith	New York	Jan. 20, 1819
Do do do	Samuel G. Goodrich	Boston, Mass.	Oct. 11, 1828
Bookbinder's press	John J. Wells	Hartford, Ct.	Mar. 23, 1824
Brick press	Benjamin Porter	Salem, Mass.	May 18, 1814
Do do	Benjamin Rolfe	During, N. H.	April 30, 1822
Do do	Samuel Briggs	Salem, Mass.	Jan. 11, 1823
Do do	Briggs R. Reed	Danvers, Mass.	May 29, 1823
Do do	David Flage, jr.	Gardiner, Me.	Dec. 17, 1824
Do do	John Moore	Do	Aug. 24, 1825
Do do	Mark Twitchell	Gray, Me.	Sept. 24, 1825
Do do	Samuel Lane	Hallowell, Me.	Sept. 30, 1825
Do do	Thomas Norcross &	Do	Oct. 1, 1825
Do do	George Pollard	Do	Dec. 31, 1825
Do do spiral moulding	Thomas Norcross	Gardiner, Me.	Mar. 28, 1826
Do do	James Parker	Baltimore, Md.	May 2, 1826
Do do	Julius Willard	Hallowell, Me.	June 24, 1826
Do do self feeding	Ephraim Mayo	Portland, Me.	Dec. 8, 1826
	John Winslow		

Do	do	-	Huntington, N. Y.	Feb. 9, 1827
Do	do and moulding	-	New York	April 24, 1827
Do	do	-	Ahna, Me.	May 18, 1827
Do	and tile press	-	Gardiner, Me.	Nov. 29, 1828
Do	do	-	Hallowell, Me.	Dec. 9, 1828
Do	press	-	Rockbridge co., Va.	Sept. 10, 1829
Buildings, removing with chimneys, and furniture, &c., therein				
Cheese press	-	-	New York	July 31, 1827
Do	and cider press	-	Pawlings, N. Y.	Oct. 26, 1807
Do	press	-	New Marlboro', Mass.	Mar. 21, 1808
Do	and cider press	-	Waterbury, Ct.	April 12, 1808
Do	press	-	New Marlboro', Mass.	June 18, 1808
Do	do	-	Granville, N. Y.	Dec. 19, 1808
Do	do	-	Barnstable, Mass.	Dec. 27, 1808
Do	do	-	Boston, Mass.	Dec. 28, 1808
Do	do	-	Burlington, N. Y.	May 13, 1809
Do	do	-	Do	July 18, 1809
Do	cider, oil, and tobacco press	-	Otsego, N. Y.	Oct. 12, 1809
Do	press	-	Sherburn, N. Y.	Feb. 22, 1810
Do	do	-	Addison co., Vt.	June 13, 1812
Do	do	-	Worcester, Mass.	May 27, 1814
Do	do	-	Rand White	Mar. 3, 1815
Do	do improvement on Townsend's	-	Jos. Bigelow	Jan. 25, 1816
Do	do or packing	-	Alex'r Norton	May 6, 1820
Do	do	-	Jos. Pride	Dec. 9, 1824
Do	do	-	Lehhcus Caswell	Dec. 9, 1825
Do	do cider, &c.	-	Do	Dec. 18, 1826
Do	do	-	D. Hitchcock and C.	-
Stone				
John Cook	-	-	New York	July 24, 1823
Webb Hart	-	-	Fayetteville, N. C.	Oct. 12, 1821
Cotton, packing	-	-	Petersburg, Va.	May 4, 1825
Do	do	-	-	-

LIST OF PATENTS—LEVER AND SCREW POWER—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Cotton, packing	Lewis Laysard	Halifax, N. C.	Sept. 28, 1825
Do do	David Wilkinson	N. Providence, R. I.	Dec. 8, 1825
Do do	Charles Williams	Petersburg, Va.	June 3, 1826
Do do	James H. McClelland	Fairfield dist., S. C.	Dec. 28, 1826
Do do	William C. Thomas	Richmond co., N. C.	Feb. 15, 1827
Do do	Obed Stith	Laurenceville, Va.	Aug. 25, 1829
Do press	Rd. V. W. Thorne &	New York	Feb. 22, 1810
Do and hay press	John Thorne	Moses Jaques & Henry Freeman	
Do press	John Graham	Woodbridge, N. J.	Oct. 2, 1811
Do do	Franklin Shaler	China Grove, S. C.	June 17, 1820
Do do	Josiah Durden	Georgetown, O.	May 5, 1824
Do do	Jac. N. Gordon	Washington, Ala.	June 23, 1825
Do do	Gideon Glenn	Plymouth, N. C.	Oct. 8, 1825
Do do	J. Boltwright and J. Nathans	Lewisburg, N. C.	April 12, 1826
Do and tobacco press	David Flagg & Chas. Peck	Richland, S. C.	Nov. 21, 1826
Do press	Philemon White	Gardiner, Me.	Dec. 30, 1826
Do do	Richard Jernigan	Chatham co., N. C.	Feb. 19, 1827
Do and hay press	Thomas D. Wilson	Waynesburgh, N. C.	May 15, 1827
Do press	William J. Cocke	Corddon, Ind.	June 6, 1827
Do do	Zenos Bronson	Cabin Point, Va.	Feb. 4, 1828
Do do	Philzeno Payne	Jasper co., Ga.	July 7, 1829
		Claiborne co., Miss.	Aug. 10, 1829

Crane lever	Eb. Smith	Oneida co., N. Y.	Dec. 31, 1818
Hay press, cider and oil hops, &c.	Nathan Williams	Augusta, Me.	Feb. 15, 1826
Do double box	Jos. Wilson	Ousego, N. Y.	Feb. 17, 1826
Do cotton, &c.	Ez. Waterhouse	Gardiner, Me.	Nov. 14, 1826
Do	David Flagg & Thas.	Do	Dec. 30, 1826
Do	Peck	Pittstown, Me.	Jan. 26, 1828
Hydrostatic press, Bramah's	Moses B. Bliss	Philadelphia, Pa.	Dec. 2, 1829
Hydro-mechanical press	D. H. Mason and M. W. Baldwin	Washington, D. C.	Dec. 26, 1803
Inking apparatus, gravitating	John Beverly	New York	Oct. 20, 1829
Ink distributor	William J. Stone	Gulfcrd, N. C.	Dec. 3, 1829
Jackscrew, wooden	John Prince	Brockville, Ind.	Feb. 3, 1819
Do for raising wagons	Zenos Bunker	New York	June 3, 1825
Do for stowing goods in ships' holds	William Hoyt	Springfield, Mass.	Feb. 16, 1829
Do for raising wagons	Thomas Evans	Sharon, Ct.	Mar. 8, 1828
Leather press	Hez. Salisbury	Philadelphia, Pa.	Jan. 18, 1810
Letter press for proofs	Jona. Elliot	Do	May 19, 1823
Lever windlass press	Adam Ramage	Rhinebeck, N. Y.	Aug. 31, 1810
Do purchase machine for working mills, propelling boats, &c.	Thaddeus Williams, jr.	Philadelphia, Pa.	April 24, 1811
Do progressive press	Shubael Kimball	Halifax, N. C.	Feb. 27, 1819
Do bottom press, combined	Jac. Perkins	Blkely, Ala.	May 10, 1826
Do gained power	Emanuel Venear	Dauville, Va.	Oct. 5, 1827
Do press	Ed. G. Fitch	Maury cc., Tenn.	April 25, 1828
Do do compound	William Linn	Turner, Me.	Jan. 21, 1829
Do do	John Rogers	New York	Feb. 20, 1821
Do do spiral	Thatcher Blake	Do	Mar. 21, 1821
Do to raise bodies perpendicularly	Abm. O. Stansbury	Norfolk, Va.	July 1, 1822
Do angle	Rd. Sealy	Darien, Geo.	May 14, 1822
Do power, crossing or collapsing	James Barron	Do	May 19, 1824

LIST OF PATENTS—LEVER AND SCREW POWER—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Lever, compound pendulum	Cyrus Berry	Poughkeepsie, N. Y.	Nov. 1, 1825
Oil press	Josiah White	Massachusetts	Nov. 27, 1804
Do pressing and straining	John Cunningham & S. S. Edmonston	New York	June 22, 1812
Do press, improvement on Cunningham and Edmonston's	Sam'l S. Edmonston	Do	Sept. 1, 1813
Do do	John Hallock	Egg Harbor, N. J.	Jan. 22, 1822
Do do	Isaac Clowes	Hampton, Va.	Nov. 3, 1825
Do do	Wm. H. Hoegg	Ashtabula, O.	May 20, 1826
Packing press	Jac. Idler	Pennsylvania	Sept. 24, 1802
Do machine	John Clark and E. Evans	Philadelphia, Pa.	July 20, 1803
Do and preparing bark for exportation	Jos. Lyon	Do	July 1, 1811
Do ground bark	Do	Statesburg, S. C.	Jan. 5, 1815
Do machine	Tyre Jennings	Albany, N. Y.	Mar. 3, 1829
Pendulum power	Jedediah Tallman	Providence, R. I.	Mar. 31, 1808
Do machine	Jos. Lefever	New York	June 13, 1810
Power and motion to machinery by weights	Peter Overt	Canterbury, Ct.	Dec. 18, 1813
Do mechanical, mode of applying	Lorin Butts	New York	July 9, 1823
Press frame, standing	Benjamin F. Brown	Do	Mar. 2, 1822
Do improvement on Brown's	Robert Hoe	Litchfield, Ct.	April 22, 1828
Press, increasing	Abm. Norton	Vernon, N. Y.	Feb. 11, 1812
Do	Silas Hitchcock	Do	June 25, 1813
Do by combination of powers	Thomas and John P. Bakewell	Pittsburg, Pa.	Jan. 14, 1829
Do double loom spring	Rd. McOmber	Galway, N. Y.	Oct. 27, 1829

Pressing	Do	and boring machine straw or chip hats	-	Pomfret, Conn.	May 21, 1808
	Do	clothes	-	Hanover, N. H.	July 9, 1808
	Do	machine	-	New York	Aug. 31, 1808
	Do	straw bonnets	-	Do	Mar. 26, 1810
	Do	do	-	Berlin, Ct.	April 14, 1810
	Do	hoisting and lowering machine and raising weights	-	Paris, N. Y.	May 23, 1815
	Printing books	-	-	Hopkinson, Mass.	June 11, 1819
	Do	art of	-	Walpole, Mass.	July 15, 1820
	Do	press	-	Amboy, N. J.	Feb. 20, 1822
	Do	machine	-	Mayville, N. Y.	Feb. 19, 1829
	Do	press, circular	-	Warren, R. I.	Jan. 4, 1816
	Do	do	cylindrical	New York	Mar. 6, 1823
	Do	do	and ink distributor	Connecticut	Nov. 16, 1796
	Do	do	copper and steel plate	New Jersey	Jan. 24, 1798
	Do	do	by means of rollers	Boston, Mass.	Feb. 1, 1810
	Do	do	William Elliot	Roxbury, Mass.	Jan. 28, 1811
	Do	do	Abm. O. Stansbury	New York	Feb. 17, 1813
	Do	do	Samuel Rust	Hartford, Ct.	Feb. 26, 1813
	Do	do	Peter Smith	Newburyport, Mass.	June 29, 1813
	Do	do	Daniel Pierson	Do	July 16, 1813
	Do	do	Adam Ramage	Philadelphia, Pa.	May 28, 1818
	Do	do	John J. Wells	Hartford, Ct.	Feb. 8, 1819
	Do	do	Burgess Allison and William Elliot	Washington, D. C.	Mar. 11, 1819
	Do	do	Samuel Rust	New York	April 7, 1821
	Do	do	Peter Smith	Do	May 13, 1821
	Do	do	Daniel Neale	Philadelphia, Pa.	April 6, 1822
	Do	do	Daniel Treadwell	Boston, Mass.	Nov. 15, 1825
					Mar. 2, 1826

LIST OF PATENTS—LEVER AND SCREW POWER—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Printing press -	David Phelps -	Boston, Mass. -	Sept. 15, 1826
Do do -	Samuel Fairlamb -	New York -	Nov. 4, 1826
Do hand -	Samuel Couillard, jr. -	Boston, Mass. -	July 14, 1827
Do do -	Do -	Do -	Oct. 5, 1827
Do do -	J. C. Holbrook and E. H. Thomas -	Brattleborough, Vt. -	Feb. 7, 1828
Do do -	J. C. Holbrook and E. H. Thomas -	Do -	Feb. 7, 1828
Do do -	G. W. Cartwright -	Mount Pleasant, N.Y. -	April 29, 1828
Do do -	Cyrus Durand -	New York -	May 22, 1828
Do do -	Chas. G. Williams -	Do -	May 29, 1828
Do do -	Joshua Laird -	Pittsburg, Pa. -	Aug. 16, 1828
Do do -	Samuel Rust -	New York -	April 17, 1829
Do do -	John J. Wells -	Hartford, Ct. -	June 29, 1829
Do do -	Jonas Booth, sen., Jas. Booth, Thos. Booth, & Jonas Booth, jr. -	New York -	Sept. 1, 1829
Do do -	Andrew Maverick -	Do -	April 17, 1810
Do do -	William Edwards -	Northampton -	Oct. 19, 1812
Do do -	Hugh Maxwell -	Lancaster, Pa. -	Dec. 26, 1817
Do do -	Elisha Gordon -	Philadelphia, Pa. -	June 26, 1812
Do do -	Samuel Wallis -	Massachusetts -	Sept. 21, 1801
Do do -	John Edwards -	New York -	May 19, 1806
Do do -	Aaron Pollock -	Boston, Mass. -	July 31, 1815
Do do -	John Edwards -	New York -	Nov. 19, 1816
Roller cylinder, for distributing ink on copperplates			
Do for pressing leather			
Do for distributing ink on types			
Rolling press for manufacturing edged tools			
Scales and beams, portable			
Do beams and balances			
Do do do			
Do do do			

LIST OF PATENTEES—SCREW AND LEVER POWER.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Arnold, Jesse	Pawlings, N. Y.	Cheese press	-	Oct. 26, 1807
Allen, Phineas	Burlington, N. Y.	Do	-	May 13, 1809
Atwell, Benj.	Do	Do	-	July 18, 1809
Andrews, Samuel	Bridgetown, Me.	Steelyards, lever power	-	
Allison, Burgess, and				
Wm. Elliott	Washington, D. C.	Printing press by means of rollers	-	Mar. 11, 1819
Blaisdell, Samuel	Lancaster, Ohio	Balance, improvement on Dearborn's	-	Oct. 10, 1827
Babcock, John	New Haven, Ct.	Ballstocks, printers'	-	Mar. 18, 1818
Briggs, Samuel	Salem, Mass.	Brick press	-	Jan. 11, 1823
Barker, James, M. D.	Gardner, Me.	Brick and tile press	-	Nov. 29, 1828
Brown, Simeon	New York City	Buildings, removing with chimney, furniture, &c.	-	July 31, 1827
Benedict, Eb.	New Marlboro', Mass.	Cheese and cider press	-	Mar. 21, 1808
Do	Do	do	-	June 18, 1808
Bigelow, Joseph	Montpelier, Vt.	Cheese press, improvement on Townsend's	-	Jan. 25, 1816
Boltwright, J., and J.				
Nathans	Richland, S. C.	Cotton press	-	Nov. 21, 1826
Bronson, Zenas	Jasper co., Ga.	Do horizontal rack and pinion	-	July 7, 1829
Bliss, Moses B.	Pittstown, Me.	Hay press	-	Jan. 26, 1828
Beverly, John	Philadelphia, Pa.	Hydro mechanical press	-	Dec. 26, 1803
Bunker, Zenas	Guilford, N. C.	Jackscrew, wooden	-	Feb. 3, 1819
Blake, Thatcher	Turner, Me.	Lever press	-	Feb. 20, 1821
Barron, James	Norfolk, Va.	Do angles	-	May 14, 1822
Berry, Cyrus	Poughkeepsie, N. Y.	Do compound pendulum	-	Nov. 1, 1825
Butts, Lorin	Canterbury, Ct.	Power, mechanical, mode of applying	-	July 9, 1823
Brown, Benj. F.	New York	Press frame, standing	-	Mar. 2, 1829

Bakewell, Ths. & J. P. Burgess, Allison, and Wm. Elliot	Pittsburgh, Pa.	-	Do by combination of powers	-	Jan. 14, 1829
Booth, Jonas, sr., Jas. Booth, Ths. Booth, and Jonas Booth, jr.	Washington, D. C.	-	Printing press by means of rollers	-	Mar. 11, 1819
Black, Jeremiah	New York	-	Do	-	Sept. 1, 1819
Barker, Eph., and Jas. and Aaron Hall	Northumberland, Pa.	-	Screw, Archimedean	-	Jan. 17, 1818
Bartholomew, Jac.	Boston, Mass.	-	Steam press, cylindrical	-	July 12, 1816
Brown, Edmund	Middlebury, Vt.	-	Steelyards	-	Feb. 27, 1819
Burt, Wm. A.	Richmond, Va.	-	Tobacco press, double lever	-	April 30, 1819
Babcock, Alden	Detroit, Mich. T.	-	Typographer	-	July 23, 1829
Butts, Her.	Boston, Mass.	-	Weights, cast iron, adjusting	-	Nov. 6, 1815
Crossman, Alfred B.	Connecticut	-	Wheel press	-	Sept. 13, 1803
Caswell, Libbeus	Huntington, N. Y.	-	Brick press	-	Feb. 9, 1827
Do	Harrison, Me.	-	Cheese press	-	Dec. 9, 1825
Cook, John	Do	-	Do cider, &c.	-	Dec. 18, 1826
Cocke, Wm. J.	Fayetteville, N. C.	-	Cotton packing	-	Oct. 12, 1821
Cunningham, John, and Sam'l. S. Edmonston	Cabin Point, Va.	-	Do press	-	Feb. 4, 1828
Clowes, Isaac	New York	-	Oil, pressing and straining	-	June 22, 1812
Clark, John, and E.	Hampton, Va.	-	Oil press	-	Nov. 3, 1825
Evans	Pomfret, Ct.	-	Packing machine	-	July 20, 1803
Cunningham, Rob. P.	Mayville, N. Y.	-	Pressing	-	May 21, 1808
Cummings, Thayer	Boston, Mass.	-	Do and raising weights	-	Feb. 19, 1829
Couillard, Sam'l., jr.	Do	-	Printing press, hand	-	July 14, 1827
Do	Do	-	Do	-	Oct. 5, 1827
Cartwright, Geo. W.	Mount Pleasant, N. Y.	-	Do roller	-	April 29, 1828
Cooper, James	Augusta co., Va.	-	Screw, Archimedean	-	Dec. 14, 1819
Cohoon, Thomas	Cazenovia, N. Y.	-	Screw press	-	April 14, 1803

LIST OF PATENTEES—SCREW AND LEVER POWER—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Dearborn, Henry	Boston, Mass.	Balance	-	Mar. 24, 1819
Dickerman, Hez.	Barnstable, Mass.	Cheese press	-	Dec. 19, 1808
Durden, Josiah	Washington, Ala.	Cotton press, water power	-	June 23, 1825
Dodge, Wm. M.	New York	Printing, art of	-	Mar. 6, 1823
Dixey, John	New Jersey	Do machine	-	Jan. 24, 1798
Durand, Cyrus	New York	Do press, copperplate	-	May 22, 1828
Dearborn, Benj.	Massachusetts	Steelyards	-	Feb. 14, 1799
Dupre, Louis	South Carolina	Do	-	May 12, 1802
Evans, Thomas	New York	Jackscrew for stowing goods in ships' holds	-	Feb. 16, 1829
Elliot, Jonathan	Sharon, Ct.	Leather press	-	Jan. 18, 1810
Edmonston, Saml. S.	Do	Oil press, improvement on Cunningham & Edmonston's	-	Sept. 1, 1813
Evans, E., and John Clark	Pennsylvania New York	Packing machine	-	July 20, 1803
Elliot, William	-	Printing press, and ink distributor	-	Feb. 17, 1813
Elliot, William, and Allison, Burgess	Washington, D. C.	Do by means of rollers	-	Mar. 11, 1819
Edwards, Wm.	Northampton	Roller for pressing leather	-	Oct. 19, 1812
Edwards, John	New York	Scalebeams and balances	-	May 19, 1806
Do	Do	Do	-	Nov. 19, 1816
Do	Do	Do	-	May 19, 1806
Flagg, David, jr.	Gardiner, Me.	Steelyards	-	Dec. 17, 1824
Freeman, Henry	Woodbridge, N. J.	Brick press	-	Oct. 2, 1811
Flagg, David, & Charles Peck	Gardiner, Me.	Cotton press	-	Dec. 30, 1826
Do	Do	Do and tobacco press	-	Dec. 30, 1826
		Hay press, cotton, &c.	-	

Fitch, Edward G.	Blakely, Ala.	Oct. 5, 1827
Freeman, Philip	Amboy, N. J.	Feb. 20, 1822
Fairlamb, Samuel	New York	Nov. 4, 1826
Fraser, Simon	Nottingham, Md.	Mar. 23, 1820
Granger, William	Middlebury, Vt.	Sept. 8, 1810
Goodrich, Samuel G.	Boston, Mass.	Oct. 11, 1828
Goulding, James	Worcester, Mass.	May 27, 1814
Graham, John	China Grove, S. C.	June 17, 1820
Gordon, Jac. N.	Plymouth, N. C.	Oct. 8, 1825
Glenn, Gideon	Lewisburg, N. C.	April 12, 1826
Gordon, Elisha	Philadelphia, Pa.	June 26, 1812
Godfrey, William H.	Rochester, N. Y.	Nov. 27, 1826
Galloway, Jehu	Baltimore, Md.	April 2, 1824
Howe, John	Alna, Me.	May 18, 1827
Hitchcock, D., and C.	New York	
Stone	Petersburg, Va.	July 24, 1828
Hart, Webb	Brookville, Ind.	May 4, 1825
Hoyt, William	Egg Harbor, N. J.	June 3, 1825
Hallock, John	Ashitabula, O.	Jan. 22, 1822
Hoegg, William H.	New York	May 20, 1826
Hoe, Robert	Vernon, N. Y.	April 22, 1828
Hitchcock, Silas	Brattleborough, Vt.	June 25, 1813
Holbrook, J. C., & E. H. Thomas	Do	
Do	Preble co., O.	Feb. 7, 1828
Do	Lincoln, Mass.	Feb. 7, 1828
Harris, Perry	Archimedean	Mar. 25, 1828
Hills, Samuel	Steelyards	Dec. 27, 1815
Holmes, Almoran	Weights, engine for raising	Oct. 21, 1824
Irwin, Hazel	Cheese press	Dec. 28, 1808
Jaques, Moses, & Henry Freeman	Woodbridge, N. J.	Oct. 2, 1811
	Cotton and hay press	

LIST OF PATENTEES—LEVER AND SCREW POWER—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Jernigan, Richard	Waynesburg, N. C.	Cotton press -	May 15, 1827
Idler, Jacob	Pennsylvania	Packing press -	Sept. 24, 1802
Jennings, Tyre	Statesburg, S. C.	Do machine	Mar. 3, 1829
Johnson, Caleb	New Glasgow, Va.	Tobacco press, double screw	June 3, 1808
Kimball, Shubael	Rhinebeck, N. Y.	Lever purchase, machine for working mills, propelling boats, &c.	April 24, 1811
Kinsey, A. pollos	Connecticut	Printing press	Nov. 16, 1796
Lane, Samuel	Hallowell, Me.	Brick press and tile	Sept. 30, 1825
Laysard, Lewis	Halifax, N. C.	Cotton packing	Sept. 28, 1825
Linn, William	Danville, Va.	Lever press	April 25, 1828
Lyon, Joseph	Philadelphia, Pa.	Packing and preparing bark for exportation	July 1, 1811
Do	Do	Do ground bark	Jan. 5, 1815
Lelever, Joseph	Providence, R. I.	Pendulum machine	June 13, 1810
Laird, Joshua	Pittsburg, Pa.	Printing press roller	Aug. 16, 1828
Langdon, Barnabas	St. Alban's, Vt.	Steelyards	April 23, 1807
Moore, John	Gardiner, Me.	Brick press, compound	Aug. 24, 1825
Mayo, Ephraim	Hallowell, Me.	Do	June 24, 1826
Macdonald, James	New York	Do and moulding	April 24, 1827
Mayo, Ephraim	Hallowell, Me.	Do and tile	Dec. 9, 1828
Martin, Levi	Granville, N. Y.	Cheese press	Dec. 19, 1828
McClelland, James H.	Fairfield dist. S. C.	Cotton packing	Dec. 28, 1826
Mason, D. H. & M.	Philadelphia, Pa.	Hydrostatic press, Bramah's	Dec. 2, 1829
W. Baldwin	Galway, N. Y.	Press, double loom spring	Oct. 27, 1829
McOmber, Richard	Hartford, Ct.	Printing press	Feb. 26, 1813
Mills, Zach.			

Maverick, Andrew	New York	April 17, 1810
Maxwell, Hugh	Lancaster, Pa.	Dec. 26, 1817
Norcross, Thomas, & George Pollard.	Hallowell, Me.	Oct. 1, 1825
Norcross, Thomas	Do	Dec. 31, 1825
Nichols, William	Cheese, cider, oil, and tobacco-press	Oct. 12, 1809
Norton, Alexander	Do press, or packing	May 6, 1820
Norton, Abraham	Press, increasing	Feb. 11, 1812
Neale, Daniel	Printing press	Nov. 15, 1825
Nold, Henry	Weights, machine for raising	Jan. 22, 1817
Newberry, George J.	Type, printing, metallic and colored powder applied to	Feb. 1, 1821
Overt, Peter	Power and motion to machinery by weights	Dec. 18, 1813
Porter, Benj.	Brick press	May 18, 1814
Parker, James	Do spiral moulding	Mar. 28, 1826
Pride, Joseph	Cheese press	Dec. 9, 1824
Payne, Philenzo	Cotton press	Aug. 10, 1829
Prince, John	Ink distributor	Dec. 3, 1829
Perkins, Jacob	Lever progressive press	Feb. 27, 1819
Prince, Samuel	Pressing straw or chip-hats	Aug. 31, 1808
Puffer, Timothy	Do machine	May 23, 1815
Perkins, Jacob	Printing press, copper and steel plate	June 29, 1813
Pierson, Daniel	Do	July 16, 1813
Phelps, David	Do	Sept. 15, 1826
Pollock, Aaron	Scales, and beams, and balances	July 31, 1815
Pierson, Jacob	Screw press, wooden, for packing cotton	Oct. 17, 1811
Phinney, Zina	Steelyards and scales	Jan. 6, 1814
Pennel, William	Windlass power	June 29, 1829
Rogers, Solomon A.	Balance, improvement on Dearborn's	July 31, 1817
Rogers, David	Do	July 13, 1824
Rolfe, Benj.	Brick press	April 30, 1822
Reed, Briggs R.	Do	May 29, 1823

LIST OF PATENTEES—LEVER AND SCREW POWER—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Raymond, Eb.	Sherburn, N. Y.	Cheese press -	-	Feb. 22, 1810
Ramage, Adam	Philadelphia, Pa.	Letter press for proofs	-	May 19, 1823
Rogers, John	Maury co., Tenn.	Lever press, compound	-	Jan. 21, 1829
Ramsay, Robert	Hanover, N. H.	Pressing and boring machine	-	July 9, 1808
Randall, Sam'l.	Warren, R. I.	Printing books	-	Jan. 4, 1816
Ramage, Adam	Philadelphia, Pa.	Do press	-	May 28, 1818
Rust, Samuel	New York	Do do	-	May 13, 1821
Do	Do	Do Washington	-	April 17, 1829
Rogers, Solomon A.	Philadelphia, Pa.	Scales, beams, and balances	-	Feb. 19, 1825
Smith, Matthew	New York	Blocks used in stereotype printing	-	Jan. 20, 1819
Stith, Obad	Laurensville, Va.	Cotton packing	-	Aug. 25, 1829
Shaler, Franklin	Georgetown, O.	Cotton press	-	May 5, 1824
Smith, Eb.	Oneida co., N. Y.	Crane lever	-	Dec. 31, 1818
Stone, Wm. J.	Washington, D. C.	Inking apparatus, gravitating	-	Oct. 20, 1829
Salisbury, Hez.	Springfield, Mass.	Jackscrew for raising wagons	-	Mar. 8, 1828
Stanbury, Abm. O.	New York	Lever press, spiral	-	Mar. 21, 1821
Sealy, Richard	Do	Do to raise bodies perpendicularly	-	July 1, 1822
Scarborough, Wm.	Darien, Georgia	Do power, crossing or collapsing	-	May 19, 1824
Sage, Joseph	Berlin, Ct.	Pressing clothes	-	April 14, 1810
Smith, Eleazer	Walpole, Mass.	Do straw bounets	-	July 15, 1820
Sawin, John P., and	Boston, Mass.	Printing press, circular	-	Feb. 1, 1810
Thomas B. Wait	Roxbury, Mass.	Do cylindrical	-	Jan. 28, 1811
Do	New York	Do	-	April 7, 1821
Stanbury, Abm. O.	Do	Do	-	April 6, 1822
Smith, Peter				

Skinner, Ezra F. / Camillus, N. Y.

f Scales, pendulum

Skinner, Ezra	Gamillus, N. Y.	Scales, preponderating	Aug. 23, 1825
Twitchell, Mark	Gray, Me.	Brick press	Sept. 24, 1825
Townsend, Wm. W.	Addison co., Vt.	Cheese press	June 13, 1812
Thomas, Wm.	Richmond co., N. C.	Cotton packing	Feb. 15, 1827
Thorne, Rd., and John Thorne	New York	Cotton press	Feb. 22, 1810
Tallman, Jedediah	Albany, N. Y.	Pendulum power	Mar. 31, 1808
Torne, Rd., V. W. & John Thorne	New York	Pressing machine	Mar. 26, 1810
Treadwell, Daniel	Boston, Mass.	Printing press, power	Mar. 2, 1826
Venear, Emanuel	Halifax, N. C.	Lever bottom press, combined	May 10, 1826
Wright, Russel H.	Boston, Mass.	Balance, perpetual	June 9, 1810
Wells, John J.	Hartford, Ct.	Bookbinder's press	Mar. 23, 1824
Willard, Julius	Baltimore, Md.	Brick press	May 2, 1826
Winslow, John	Portland, Me.	Do self-feeding	Dec. 8, 1826
Woodson, John	Rockbridge co., Va.	Do	Sept. 10, 1829
Warner, Ephm.	Waterbury, Ct.	Cheese press	April 12, 1808
White, Rand	N. Providence, R. I.	Do	Mar. 3, 1815
Wilkinson, David	Petersburg, Va.	Cotton packing	Dec. 8, 1825
Williams, Charles	Chatham co., N. C.	Do	June 3, 1826
White, Philemon	Coridon, Ind.	Cotton press	Feb. 19, 1827
Wilson, Thomas D.	Augusta, Me.	Do and hay press	June 6, 1827
Whitney, Nathan	Otsego, N. Y.	Hay press, cider and oil	Feb. 15, 1826
Wilson, Joseph	Gardiner, Me.	Do hops, &c.	Feb. 17, 1826
Waterhouse, E.	Philadelphia, Pa.	Do double box	Nov. 14, 1826
Williams, Thad., jr.	Massachusetts	Lever windlass press	Aug. 31, 1810
White, Josiah	Hopkinson, Mass.	Oil press	Nov. 27, 1804
Whiting, Preston	Hartford, Ct.	Pressing straw bonnets	June 11, 1819
Wells, John J.	Do	Printing press	Feb. 8, 1819
Charles G. Williams	New York	Do	June 29, 1829
		Do cylindrical	May 29, 1828

LIST OF PATENTEES—LEVER AND SCREW POWER—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.				WHEN ISSUED.
		-	-	-	-	
Wallis, Samuel	Massachusetts	Seales and beams, portable	-	-	-	Sept. 21, 1801
Winter, Elisha	New Orleans	Screw press, double	-	-	-	Sept. 4, 1810
Wing, Calvin	Gardiner, Me.	Vice, perpetual lever	-	-	-	Mar. 2, 1826
Wadsworth, Eli	Hartford, Ct.	Weighing machine	-	-	-	Sept. 7, 1820

LIST OF PATENTS—ARMS.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.		
				-	-
Barrel, gun, &c., plating	John Fowler	Lancaster, Pa.	Jan. 4, 1810		
Do do turning	Seth Youngs	Hartford, Ct.	May 1, 1810		
Do do	Asa Waters	Milbury, Mass.	Oct. 25, 1817		
Do do rifle or plain	Artemas Wheeler	Concord, Mass.	Feb. 19, 1819		
Bayonet sockets	Andrew Wilson	New York	June 11, 1814		
Cannon pointing	Jer. Black	Northumberland, Pa.	Jan. 17, 1818		
Do method of discharging	Hy. Whitcomb	Adams, N. Y.	Oct. 25, 1826		
Cannonaide, screw box, elevating, and cap	Enoch Hidden	New York	April 26, 1826		
Carriage, gun	Samuel Hawkins	Do	Feb. 19, 1806		
Do for field artillery	David Cobb	Boston, Mass.	April 25, 1808		
Do pivot gun	Luke M. Leighton	Portsmouth, N. H.	Nov. 29, 1814		
Cartouch box	John Mix	New York	June 3, 1813		

Fire arms

Do do	gun	May 21, 1811
Do do	percussion	Oct. 31, 1822
Do do	do	Nov. 24, 1826
Do do	discharging	Hardwick, Me.
Gun to discharge seven or more times		Philadelphia, Pa.
Do construction of		Brunswick, Me.
Do revolving, four barrel, and percussion lock		Concord, Mass.
Do percussion, eight barrels		Newark, N. J.
Do elevating heavy		Middletown, O.
Gunnery, repeating		Do
Knapsacks, military		Fortress Monroe, Va.
Lock, gun		West Middletown, Pa.
Do do		Washington, D. C.
Do rifle		Kentucky
		Little River, Me.
		Rochester, N. Y.
		Edgecomb, Me.
		Fredonia, N. Y.
		Mayville, N. Y.
		Do
		S. New Berlin, N. Y.
		Jefferson co., O.
		Malone, N. Y.
		Manlius, N. Y.
		New Berlin, N. Y.
		New London, Ct.
		Middletown, O.
		Philadelphia, Pa.
		Rochester, N. Y.
		Brighton, N. Y.

Muskets containing a number of charges

LIST OF PATENTS—ARMS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Percussion guns	-	-	Joshua Shaw -
Do	-	-	Jos. Finch -
do	-	-	James Tyrer -
Do	-	-	Henry Carbery and
Pontoons	-	-	William Tatham -
Primers, percussion, for cannon	-	-	William H. Bell -
Quadrant, gunners'	-	-	Charles Hammond -
Rifles	-	-	Elisha Strong & Cottonton Kellogg -
Do	-	-	Fred. Oswan -
Do	-	-	Obed Stith -
Do repeating	-	-	Isaiah Jennings -
Do double shooting	-	-	Cyrus Mosher & Noble White -
Shot, chain and cleaver, discharging	-	-	Israel Hatch -
Sponges for artillery	-	-	John Gether -
			Hamilton, N. Y. -
			Massachusetts -
			Philadelphia, Pa. -
			June 19, 1822
			April 12, 1823
			June 3, 1825
			July 19, 1816
			Dec. 8, 1829
			May 6, 1807
			Aug. 31, 1810
			Feb. 25, 1815
			Mar. 16, 1819
			Sept. 22, 1821
			May 5, 1828
			May 24, 1801
			May 16, 1826

LIST OF PATENTEES—ARMS.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Ambler, John, Jr.	S. New Berlin, N. Y.	Lock, percussion lever	Oct. 16, 1827
Black, Jer.	Northumberland, Pa.	Cannon, pointing	Jan. 17, 1818
Boyden, Alex.	Newark, N. J.	Gun, construction of	Jan. 10, 1824
Bell, William H.	Fortress Monroe, Va.	Do elevating heavy	Dec. 8, 1829
Do	Boston, Mass.	Primers, percussion, for cannon	Dec. 8, 1829
Cobb, David	West Middletown, Pa.	Carriage for field artillery	April 25, 1808
Chambers, Jos. C.	Little River, Me.	Gunnery, repeating	Mar. 23, 1813
Colville, Alexander A.	Edgecombe, Me.	Lock, gun	April 28, 1820
Cromwell, Simon	Manlius, N. Y.	Do do	Feb. 3, 1827
Caswell, Jedediah		Do percussion	May 8, 1828
Carberry, Henry, and		Pontoons	July 19, 1816
William Tatham	Washington City, D.C.	Lock, percussion	July 10, 1827
Davis, Marvel	Mayville, N. Y.	Fire arms, discharging	Dec. 7, 1829
Eastman, Robert	Brunswick, Me.	Barrels, gun, &c., plating	Jan. 4, 1810
Fowler, John	Lancaster, Pa.	Gun, percussion, 8 barrels	Oct. 10, 1829
Faries, Samuel L.	Middletown, O.	Lock, percussion, water proof, self-priming	May 29, 1828
Do	Do	Percussion guns and pistols	April 12, 1823
Finch, Jos.	New York	Lock, gun	April 3, 1829
Gilbert, Ephraim	Rochester	Sponges for artillery	May 16, 1826
Gether, John	Philadelphia, Pa.	Cannonade screw box, elevating and cap	April 26, 1826
Hidden, Enoch	New York	Carriage, gun	Feb. 19, 1806
Hawkins, Samuel	Do	Fire arms	Oct. 31, 1822
Holecomb, Albert	Litchfield, N. Y.	Lock, percussion	Feb. 20, 1827
Hart, William A.	Fredonia, N. Y.	Quadrant, gunner's	May 6, 1807
Hammond, Charles	Concord, Mass.		

LIST OF PATENTEES—ARMS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Hatch, Israel	Massachusetts	Shot, chain and cleaver, discharging	May 24, 1801
Jennings, Isaiah	New York	Rifles, repeating	Sept. 22, 1821
Laighton, Luke M.	-	Carriage, pivot gun	Nov. 29, 1814
Lowry, James B.	Portsmouth, N. H.	Lock, percussion magazine	Sept. 11, 1827
Lawrence, Jos.	Mayville, N. Y.	Do	May 24, 1828
Mix, John	New Berlin, N. Y.	Cartouch box	June 3, 1813
Medbury J., & S. Kellogg	New York	Lock, rifle	June 16, 1826
Moses, Oren	Rochester, N. Y.	Do percussion	May 3, 1828
Miller, J.	Malone, N. Y.	Muskets containing a number of charges	June 11, 1829
Mosher, C., & N. White	Brighton, N. Y.	Rifles, double shooting	May 5, 1828
Oswan, Frederick	Hamilton, N. Y.	Rifles	Feb. 25, 1815
Ruggles, Fordyce	Harper's Ferry, Va.	Fire arms	Nov. 24, 1826
Rogers, Henry	Hardwick, Me.	Gun, revolving, 4 barrel, and percussion lock	May 7, 1829
Shaw, Joshua	Middletown, O.	Fire arms	May 7, 1829
Sherbette, John	Philadelphia, Pa.	Knapsacks, military	Oct. 7, 1808
Shattuck, Jos.	Washington City	Fire arms	Nov. 10, 1827
Saltonstall, Nath'l	Jefferson co., O.	Lock, percussion	May 29, 1828
Shaw, Joshua	New London, Ct.	Do	Oct. 24, 1828
Do	Philadelphia, Pa.	Do do cannon	June 19, 1822
Strong, Elisha, & Cott-	Do	Percussion guns	
ton Kellogg	New Hartford, Ct.	Rifles	Aug. 31, 1810
Stith, Obed	Quarlestown, Va.	Do	Mar. 16, 1819
Thornton, William, &	Washington city, D.C.	Fire arms	May 21, 1811
John H. Hall	Petersburg, Va.	Percussion guns	June 3, 1825
Tyler, James			

Waters, Asa	Millbury, Mass.	Barrels, gun	Oct. 25, 1817
Wheeler, Artemas	Concord, Mass.	Do gun, rifle or plain	Feb. 19, 1819
Wilson, Andrew	New York	Bayonet sockets	June 11, 1814
Whitcomb, Henry	Adams, N. Y.	Cannon, method of discharging	Oct. 25, 1826
Wheeler, Artemas	Concord, Mass.	Gun to discharge seven or more times	June 10, 1818
West, Edward	Kentucky	Lock, gun	July 6, 1802
Young, Seth	Hartford, Ct.	Barrels, gun, turning	May 1, 1810

LIST OF PATENTS—SURGERY.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Balance, dormant	James K. Casey	New York	Jan. 21, 1829
Bleeding with leeches	John Kunitz	Philadelphia, Pa.	May 7, 1805
Blind horses, curing	Jos. Sater	Huntsville, N. C.	Aug. 14, 1821
Cancers, method of drawing and curing	Jac. Ware	Philadelphia, Pa.	Sept. 20, 1815
Do curing	James Andrus	Hillsborough, N. H.	July 30, 1816
Cataract, removing by tubes and canular points	Frs. B. Shaw	Philadelphia, Pa.	July 27, 1815
Do instrument for operating on the	Thomas R. Williams	Do	June 14, 1826
Catheter, metallic, flexible	Israel Balch & Moses	Salisbury, Me.	Oct. 26, 1815
Extractor, parallel, moving teeth	Carter	New York	July 13, 1829
Lancet, spring	Elijah Bryan	Chelsea, Vt.	April 2, 1824
Do retreating	Jer. Dewey	Newport, R. I.	July 16, 1824
Lythontripter	Thomas R. Williams	Philadelphia, Pa.	Dec. 30, 1826
Milk, drawing from breasts, machine called "hacmaga-lactiphorus"	Isaiah Lukens	D. Houghtaling & A. Maneely	June 11, 1829

LIST OF PATENTS—SURGERY—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Pessaries	Luke Parker	New York	Sept. 12, 1822
Points, metallic	Elisha Perkins	Connecticut	Feb. 19, 1796
Spine of the back, stays for	Luden McKechnie	Pennsylvania	July 1, 1796
Do inflected, apparatus	James K. Casey	New York	June 23, 1828
Splints for fractured limbs	D. S. C. H. Smith	Sutton, Mass.	July 7, 1829
Teeth, extracting	Thomas Bruff	Maryland	July 1, 1797
Do setting natural and artificial	William R. Eagleton	Baltimore, Md.	Oct. 4, 1817
Do composition for preserving	Levi S. Parmly	New York	June 17, 1820
artificial	Charles M. Graham	Do	Mar. 9, 1822
Do preventing their decay	H. H. Hayden	Baltimore, Md.	Feb. 11, 1824
Do apparatus to keep free from saliva while stopping	Charles Newton	New York	Sept. 27, 1825
Do engrafting	Elijah A. Bigelow	Brandon, Vt.	Mar. 8, 1827
Do metallic	Anthony Planton	Philadelphia, Pa.	April 5, 1828
Tourniquet	Jos. Strong	Pennsylvania	Jan. 29, 1801
Truss for ruptures	Cyrus Stone	Massachusetts	May 6, 1800
Do bolted	John Beath	Boston, Mass.	Feb. 7, 1807
Do spiral	Philip A. De Savignac	New York	July 13, 1809
Do	Jos. Cerneau	Do	Aug. 17, 1809
Do double spring, angular	Theo. Hart	Do	Aug. 30, 1811
Do	Abel Blanchard	Pembroke, N. H.	May 17, 1817
Do	Amos G. Hull	Utica, N. Y.	July 17, 1817
Do	Benjamin Stratton	Philadelphia, Pa.	June 23, 1819
Do improvement on Hull's	Bela Farr	Norwich, N. Y.	Mar. 9, 1822
Do	Amos G. Hull	New York	Feb. 27, 1823
Do spiral spring	Jos. Far	Manlius, N. Y.	Feb. 7, 1824

Do	spiral spring, conical	Amos G. Hull	New York	Aug. 19, 1824
Do	improvement on Farr's and Hull's	Jesse R. Hovey	Sangerfield, N. Y.	Mar. 31, 1825
Do		Eli M. Gibbs	Norwich, N. Y.	May 28, 1825
Do		Christian Stockman	Albany, N. Y.	Nov. 7, 1825
Do		John Blagge	Portland, Me.	Dec. 15, 1825
Do		Bela Farr	Norwich, N. Y.	Mar. 21, 1826
Do	spiral spring (his former patents cancelled)	Amos G. Hull	New York	Oct. 28, 1829
Do	Vaccinator, spring	William Haslett	Baltimore, Md.	April 17, 1817
Vaccination		James Smith	Do	July 10, 1822

LIST OF PATENTEES—SURGERY.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.	
			July 30, 1816	
Andrus, James	Hillsborough, N. H.	Cancers, method of curing		
Balch, Israel, & Moses	Salisbury, Mass.	Catheter, metallic, flexible	Oct. 26, 1815	
Carter	New York	Extractor, parallel moving teeth	July 13, 1829	
Bryan, Elijah	Maryland	Teeth, extracting	July 1, 1797	
Bruff, Thomas	Brandon, Vt.	Do engraving	Mar. 8, 1827	
Bigelow, Elijah A.	Boston, Mass.	Truss, bolted	Feb. 7, 1807	
Beath, John	Pembroke, N. H.	Do	May 17, 1817	
Blanchard, Abel	Portland, Me.	Do	Dec. 15, 1825	
Blagge, John	New York	Balance, dormant	Jan. 21, 1829	
Casey, James K.	Do	Spine, infected, apparatus	June 23, 1828	
Do	Do	Truss	Aug. 17, 1809	
Cerneau, Jos.	Chelsea, Vt.	Lancet, spring	April 2, 1824	
Dewey, Jer.	Philip A.	Truss, spiral	July 13, 1809	
De Savignac, Philip A.	New York			

LIST OF PATENTEES—SURGERY—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Eagleson, William R.	Baltimore, Md.	Teeth, setting natural and artificial	Oct. 4, 1817
Farr, Bela	Norwich, N. Y.	Truss, improvement on Hull's	Mar. 9, 1822
Farr, Jos.	Manlius, N. Y.	Do spiral spring	Feb. 7, 1824
Farr, Bela	Norwich, N. Y.	Do do	Mar. 21, 1826
Graham, Charles M.	New York	Teeth, artificial	Mar. 9, 1823
Gibbs, Eli M.	Norwich, N. Y.	Truss, improvement on Farr's and Hull's	May 28, 1825
Houghtaling, D., and A. Maneely	Watervliet, N. Y.	Milk from breasts, drawing machine, called "haemagglutinophous,"	June 11, 1829
Hayden, H. H.	Baltimore, Md.	Teeth, preventing their decay	Feb. 11, 1824
Hart, Theo.	New York	Truss, double spring angular	Aug. 30, 1811
Hull, Amos G.	Utica, N. Y.	Do	July 17, 1817
Do	Do	Do	Feb. 27, 1823
Do	Do	Do	Aug. 19, 1824
Hovey, Jesse R.	Sangerfield, N. Y.	Do spiral spring, conical	Mar. 31, 1825
Hull, Amos G.	New York	Do (his former patents cancelled)	Oct. 28, 1829
Haslett, William	Baltimore, Md.	Vaccinator, spring	April 17, 1817
Kunitz, John	Philadelphia, Pa.	Bleeding with leeches	May 7, 1805
Lukens, Isaiah	Philadelphia, Pa.	Lythrontripter	Dec. 30, 1826
McKechnie, Luden	Pennsylvania	Spine of the back, stays for	July 1, 1796
Newton, Charles	New York	Teeth, apparatus to keep them free from saliva while stopping	Sept. 27, 1825
Parker, Luke	New York	Pessaries	Sept. 12, 1822
Perkins, Elisha	Connecticut	Points, metallic	Feb. 19, 1796
Parmly, Levi S.	New York	Teeth, composition for preserving	June 17, 1820

Planton, Anthony	Philadelphia, Pa.	Do metallic	April 5, 1828
Sater, Jos.	Huntsville, N. C.	Blind horses, curing	Aug. 14, 1821
Shaw, Frs. B.	Philadelphia, Pa.	Cataract, removing by tubes and caudular points	July 27, 1815
Smith, D. S. C. H.	Sutton, Mass.	Splints for fractured limbs	July 7, 1829
Strong, Jos.	Pennsylvania	Tourniquet	Jan. 29, 1801
Stone, Cyrus	Massachusetts	Truss for ruptures	May 6, 1800
Stratton, Benjamin	Philadelphia, Pa.	Do	June 23, 1819
Stockman, Christ'n	Albany, N. Y.	Do	Nov. 7, 1825
Smith, James	Baltimore, Md.	Vaccination	July 10, 1822
Ware, Jac.	Philadelphia, Pa.	Cancers, method of drawing and curing	Sept. 20, 1515
Williams, Thomas R.	Do	Cataract, instrument for operating on the	June 14, 1826
Do	Newport, R. I.	Lancet, spring, retreating	July 16, 1824

LIST OF PATENTS—MATHEMATICAL INSTRUMENTS.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEE'S.	RESIDENCE.	WHEN ISSUED.
Angle, for taking and laying down angles	Ben. Dearborn	Boston, Mass.	April 29, 1808
Blanks, manufacturing, for checks, drafts, &c.	James Atwater	New Haven, Ct.	Jan. 21, 1829
Do	James Atwater, & N. & S. S. Jocelyn	Do	June 11, 1829
do	James Atwater	Do	Aug. 18, 1829
do	William Russell	New Bedford, Mass.	Dec. 1, 1809
Compass, mariner's or surveyor's	Samuel Dew	Romney, Va.	April 13, 1822
Do universal	Rufus Tyler	Philadelphia, Pa.	Oct. 9, 1828
Dividing machine	Thos. Brown	Albany, N. Y.	Dec. 20, 1816
Electrical apparatus	Lemuel Hedge	Windsor, Vt.	June 20, 1827
Engine for dividing scales			

LIST OF PATENTS—MATHEMATICAL INSTRUMENTS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Genealogy, chronology, represented by lines	Hy. Bostwick	New York	Aug. 2, 1826
Globes, artificial	William B. Annin	Boston, Mass.	May 4, 1826
Interest tables, geometrical	Gersham Cobb	Do	Sept. 7, 1808
Do	Do	Do	April 24, 1809
Do	Jos. Jelleff	Butternuts, N. Y.	Sept. 8, 1810
Do	Gilbert D. Lowe	Hampfield, Pa.	Aug. 12, 1815
Do	Abel Bayrd	South Reading, Pa.	July 16, 1828
Do	James Henry	Maysville, Ky.	Sept. 13, 1820
Do	Jos. Vannen	Washington, D. C.	Dec. 4, 1815
Do	Do	Philadelphia, Pa.	Oct. 18, 1823
Longimeter	J. I. Cohen	Baltimore, Md.	Mar. 3, 1825
Longitude, finding	Moses Davis	Cumberland, Md.	May 9, 1825
Lotteries	John W. Togno	Philadelphia, Pa.	May 16, 1823
Do	William Seger	Bergen, N. J.	May 25, 1825
Do	Eliphilet Nott	Union College, N. Y.	Sept. 9, 1825
Do	J. Howard and A. Hayward	Providence, R. I.	Nov. 8, 1825
Do	Francis W. Dana	Boston, Mass.	Dec. 28, 1825
Do	Edward Grattan	Providence, R. I.	May 16, 1826
Do	William C. Conine	Baltimore, Md.	Nov. 14, 1826
Do	John C. Rives	Washington, D. C.	Dec. 22, 1826
Do	William E. Spalding	Brooklyn, Ct.	Feb. 15, 1828
Do	J. I. Cohen	Baltimore, Md.	Aug. 28, 1828
Do	D. Malcolm	Orleans, La.	July 30, 1829
Do	Samuel Browning	Franconia, N. H.	Oct. 13, 1810
Magnetic cylinder			

Do	do	Mapping land instrument	Do	Dumfries, Va.	Nov. 25, 1814
		Measuring rod for packages	-	Laurel Hill	Aug. 8, 1820
Do		heights and distances	-	Baltimore, Md.	Oct. 26, 1818
		Odometer for ascertaining distance	-	Powhatan co., Va.	Aug. 20, 1819
		Pentagraph and parallel ruler	-	New Jersey	Nov. 30, 1818
		Perambulator	-	West Point, Mass.	May 17, 1803
		Planetarium, Heliogeastrum	-	Poultney, Vt.	Oct. 27, 1829
		Pneumatic machine	-	Cambria co., Pa.	April 12, 1820
		Protractor, universal	-	Philadelphia, Pa.	Jan. 7, 1816
		Do perspective	-	Do	Jan. 19, 1810
		Do rectangular	-	Hartford, Ct.	Mar. 14, 1815
		Quadrant, trigonometrical	-	South Carolina	Dec. 24, 1823
		Do astronomical	-	Massachusetts	Aug. 17, 1802
		Do	-	Caledonia, Vt.	Sept. 3, 1802
		Sector, sliding	-	Boston, Mass.	April 14, 1810
		Scale, pendulum	-	Cambridge, Mass.	Dec. 4, 1820
		Do for measuring	-	Bennington, Vt.	Feb. 21, 1810
		Trigonometer	-	Josiah J. Hendryx	May 29, 1822
		Do	-	Wm. Chamberlain	June 28, 1809
		Writing plates, geometrical	-	William Bowles	July 17, 1824
			-	Samuel Ellis	Nov. 29, 1809
			-	New Bedford, Mass.	

LIST OF PATENTEE—MATHEMATICAL INSTRUMENTS.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
			April 14, 1810
Arnold, Josiah Anain, William B. Attwater, James & N. & S. S. Jocelyn	Caledonia, Vt. Boston, Mass. New Haven, Ct.	Improvement in the quadrant Globes, artificial Blanks, manufacturing, for checks, drafts, &c.	May 4, 1826
Attwater, James Browning, Sam.	Do Do	Do Do	Jan. 21, 1829
Brown, Thomas Brown, James Bowles, William Bostwick, Hy. Bayard, Abel Cobb, Gershon	Albany, N. Y. Newark, N. J. Griswold, Ct. New York South Reading, Pa. Boston, Mass.	Cylinder, magnetic Do Electrical apparatus Key, grammatical Trigonometer Genealogy, chronology, &c., represented by lines Longimeter Geometrical interest table Do	June 11, 1829 Aug. 18, 1829 Oct. 13, 1810 Nov. 25, 1814 Dec. 20, 1816 Mar. 3, 1817 July 17, 1824 Aug. 2, 1826 July 16, 1828 Sept. 7, 1808 April 24, 1809 June 28, 1809 Nov. 30, 1818 Mar. 3, 1825
Chamberlin, Wm. Clark, James Cohen, J. I. Conine, Wm. C. Cohen, J. I.	Powhatan co., Va. Baltimore, Md.	Odometer, for ascertaining distance Lotteries Do drawing Do	Aug. 28, 1828
Dearborn, Benj. Deneale, James Dew, Sam. Davis, Moses Dana, Frs. W. Ellis, Samuel	Boston, Mass. Dumfries, Va. Romney, Va. Cumberland, Me. Boston, Mass. New Bedford, Mass.	Anglet, for taking and laying down angles Instrument for mapping land Compass, universal Lotteries, constructing and drawing Lottery, drawing Geometrical writing	April 29, 1808 Aug. 3, 1820 April 13, 1822 May 9, 1825 Dec. 28, 1825 Nov. 29, 1809

Graves, Matthew C.	Massachusetts	Quadrant, astronomical	Sept. 3, 1802
Goodwin, Nath'l	Hartford, Ct.	Protractor, rectangular	Dec. 24, 1823
Grattan, Edw.	Providence, R. I.	Lottery schemes	May 16, 1826
Gifford, Anthony	West Point, Mass.	Perambulator	Oct. 27, 1829
Hawkins, John J.	New Jersey	Ruler, pentagonal and parallel	May 17, 1803
Henry, James	Maysville, Ky.	Longitude, finding	Sept. 13, 1820
Hendryx, Josiah J.	Bennington, Vt.	Scale for measuring	May 29, 1822
Howard, J., & A. Hayward	Providence, R. I.	Lottery, drawing	Nov. 8, 1825
Hedge, Lemuel	Windsor, Vt.	Scales, engine for dividing	June 20, 1827
Jelleff, Jos.	Butternuts, N. Y.	Table, circular interest	Sept. 8, 1810
Lowe, Gilbert D.	Hampfield, Pa.	Table, improvement in Jelleff's interest	Aug. 12, 1815
Lloyd, David	Cambria co., Pa.	Pneumatic machine	Jan. 7, 1816
Morse, Moses L.	Cambridge, Mass.	Pendulum scale	Feb. 21, 1810
Malcolm, D.	Orleans, La.	Lotteries, drawing	July 30, 1829
Newell, Theo.	Poultney, Vt.	Heliogastrum plenarium	April 12, 1820
Nott, Eliphæt	Union College, N. Y.	Lotteries by arithmetical chances	Sept. 9, 1820
Otis, Bass	Philadelphia	Protractor, perspective	Mar. 14, 1815
Russel, William	New Bedford, Mass.	Compass, mariner's or surveyor's	Dec. 1, 1809
Rives, John C.	Washington, D. C.	Lotteries, drawing	Dec. 22, 1826
Stansbury, Daniel	Laurel Hill	Rod for measuring packages	Oct. 26, 1818
Seger, William	Bergen, N. J.	Lottery schemes	May 25, 1825
Spalding, William E.	Brooklyn, Ct.	Do drawing	Feb. 15, 1828
Templeton, James	South Carolina	Quadrant, trigonometrical	Aug. 17, 1802
Thompson, Gab. H.	Boston, Mass.	Sector, sliding	Dec. 4, 1820
Togno, John W.	Philadelphia	Lottery schemes	May 16, 1825
Tyler, Rufus	Do	Dividing machine	Oct. 9, 1828
Williams, Ennison	Do	Protractor, universal	Jan. 19, 1810
Wilmer, Benjamin	Baltimore, Md.	Instrument for measuring heights and distances	Aug. 20, 1819
Vannen, Joseph	Washington, D. C.	Lotteries	Dec. 4, 1815
Do	Philadelphia, Pa.	Lottery schemes	Oct. 18, 1823

LIST OF PATENTS—HOROLOGY.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Alarm bell	Benj. E. Freymouth	Philadelphia, Pa.	Dec. 22, 1814
Balance spring, catch lever	Levi Kendall	New York	May 8, 1809
Chronometer	Saml. S. Edmonston	New York	April 3, 1819
Clocks	Eli Terry	Connecticut	Nov. 17, 1797
Do balance pendulum	James Goodwin and Richard Gaines	Baltimore, Md.	Jan. 22, 1806
Do time and striking part	Ira Ives	Bristol, Ct.	June 24, 1809
Do astronomical	Thomas Newell	Sheffield, Mass.	July 7, 1809
Do over balance pendulum	Saml. Goodwin	Baltimore, Md.	July 7, 1809
Do striking part of	Leml. J. Kilborn	Pennsylvania	Oct. 12, 1809
Do time part of wooden	James Harrison	Boston, Mass.	Aug. 22, 1814
Do 30 hours, wooden	Eli Terry	Litchfield, Ct.	June 12, 1816
Do improvement on Willard's	Lemuel Curtis	Concord, Mass.	July 12, 1816
Do	Simon Willard	Boston, Mass.	Dec. 8, 1819
Do	James Henry	Maysville, Ky.	Sept. 13, 1820
Do	Joshua Burritt and Wm. P. Burdick	Ithaca, N. Y.	Oct. 25, 1821
Do	Wm. Dean	Pleasant Valley, N. Y.	Dec. 31, 1821
Do cases	John Ives	Bristol, Vt.	Mar. 21, 1822
Do wooden wheel	Eli Terry	Plymouth, Ct.	May 26, 1822
Do astronomical	Henry Miller	E. Hanover, Pa.	May 5, 1825
Do wooden wheel, 30 hours	Eli Terry	Plymouth, Ct.	May 18, 1825
Do do	Do	Do	Sept. 9, 1825
Do do	Do	Do	Mar. 4, 1826
Do do	Do	Do	Mar. 4, 1826

Do	do	do	Harrison G. Dyer	July 5,	1826
Do	-	-	Aaron D. Crane	Nov. 6,	1827
Do	-	-	Richard Ward	Mar. 18,	1829
Do	self-moving power for winding up	-	Waterbury, Ct.	Nov. '5,	1829
Marine time keeper	-	-	Charleston, S. C.	Jan. 15,	1810
Pendulum, double	-	-	Philadelphia, Pa.	Jan. 30,	1793
Do for clocks	-	-	Do	Jan. 30,	1793
Do double	-	-	Do	Jan. 30,	1793
Do machine	-	-	Newark, N. J.	Oct. 13,	1815
Pinions	-	-	Bristol, Ct.	Feb. 24,	1812
Do	-	-	Waterbury, Ct.	3	Aug. 22,
Plates, mode of boring	-	-	Cairo, N. Y.	3	Aug. 22,
Time piece, silent moving	-	-	Cairo, N. Y.	Aug. 22,	1814
Do	-	-	Connecticut	Mar. 8,	1800
Do	-	-	Massachusetts	Feb. 8,	1802
Wheels, casting	-	-	New York	Mar. 21,	1803
Do for wooden clocks	-	-	Pennsylvania	Oct. 13,	1809
Do teeth and pinions	-	-	Litchfield, Ct.	Aug. 22,	1814
Wire, pointing for clocks	-	-	Cairo, N. Y.	Aug. 22,	1814
			Waterbury, Ct.	Aug. 22,	1814

LIST OF PATENTEES—HOROLOGY.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.				WHEN ISSUED.
Allen, Charles S.	Newark, N. J.	Pendulum machine	-	-	-	Oct. 13, 1815
Burritt, Joshua, and Wm. P. Burdick	Ithaca, N. Y.	Clocks	-	-	-	Oct. 25, 1821
Bronson, Pharris, and Joel Curtis	Waterbury, Ct.	Pinions	{	-	-	Aug. 22, 1814
Curtis, Lemuel	Cairo, N. Y.	Clock, improvement on Willard's	-	-	-	July 12, 1816
Crane, Aaron D.	Concord, Mass.	Do wooden wheel, 30 hour	-	-	-	Mar. 18, 1829
Curtis, Joel	Caldwell, N. J.	Plates, mode of boring	-	-	-	Aug. 22, 1814
Curtis, Joel, & Dimon Bradley	Cairo, N. Y.	Wheels, teeth, and pinions	-	-	-	Aug. 22, 1814
Dean, Wm.	Pleasant Valley, N. Y.	Clock machinery	-	-	-	Dec. 21, 1821
Dyar, Harrison G.	New York	Clock, wooden wheel, 30 hour	-	-	-	Nov. 6, 1827
Edmonston, Saml. S.	Do	Chronometer	2	-	-	April 3, 1819
Freymouth, Benj. E.	Philadelphia, Pa.	Alarm bell	-	-	-	Dec. 22, 1814
Goodwin, James, and Richard Gaines	Baltimore, Md.	Clocks, balance pendulum	-	-	-	Jan. 22, 1806
Goodwin, Saml.	Do	Do over balance pendulum	-	-	-	July 7, 1809
Gill, Isaac	Charleston, S. C.	Marine time keeper	-	-	-	Jan. 15, 1810
Harrison, James	Boston, Mass.	Clock, time part of wooden	-	-	-	Aug. 22, 1814
Henry, James	Maysville, Ky.	Clocks	-	-	-	Sept. 13, 1820
Hopkins, Asa	Litchfield, Ct.	Wheels for wooden clocks	-	-	-	Aug. 22, 1814
Ives, Ira	Bristol, Ct.	Clocks, time and striking part	-	-	-	June 24, 1809
Ives, John	Do	Clock cases	-	-	-	Mar. 21, 1822
Do	Do	Pinions	-	-	-	Feb. 24, 1812
Joceline, Simeon	Connecticut	Time piece, silent moving	-	-	-	Mar. 8, 1800

Kendall, Levi	New York	Balance spring, catch lever	May 8, 1809
Kilborn, Leml. J.	Pennsylvania	Clocks, striking part of	Oct. 12, 1809
Do	-	Wheels, casting	Oct. 13, 1809
Leslie, Robert	Philadelphia, Pa.	Pendulum, double	Jan. 30, 1793
Do	-	Do for clocks	Jan. 30, 1793
Do	-	Do double	Jan. 30, 1793
Lanny, David F.	New York	Time piece, silent moving	Mar. 21, 1803
Miller, Henry	E. Hanover, Pa.	Clocks, astronomical	May 5, 1825
Newell, Thomas	Sheffield co., Mass.	Do do	July 7, 1809
Sperry, Anson	Waterbury, Ct.	Wire, pointing for clocks	Aug. 22, 1814
Perry, Eli	Connecticut	Clocks	Nov. 17, 1797
Do	Litchfield, Ct.	Clock, 30 hours, wooden	June 12, 1816
Do	Plymouth, Ct.	Do wooden wheel	May 26, 1822
Do	-	Do wooden wheel, 30 hour	May 18, 1825
Do	-	Do do	Sept. 19, 1825
Do	-	Do do	Mar. 4, 1826
Do	-	Do do	Mar. 4, 1826
Do	-	Do do	July 5, 1826
Willard, Simon	Boston, Mass.	Clocks	Dec. 8, 1819
Ward, Richard	Waterbury, Ct.	Do self-moving power for winding up	Nov. 5, 1829
Willard, Simeon	Massachusetts	Time piece, silent moving	Feb. 8, 1802

LIST OF PATENTS—CHEMICAL COMPOSITIONS.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Acid, sulphuric	Benjamin Bell	Boston, Mass.	Nov. 7, 1811
Do vegetable, preparation of	Nathaniel S. Allison & Benjamin Kugler	Philadelphia, Pa. Massachusetts	June 5, 1812 Jan. 6, 1797
Alkali, extracting from marine salt and kelp	John Mazro	Philadelphia, Pa.	Mar. 3, 1817
Alum, making from lignite	Genet Troost	Baltimore, Md.	Sept. 9, 1817
Anti-bilious grand depurative curative	John J. Giraud	New York	Oct. 26, 1818
Asiatic Lenitive for pain	Ez. Audler	Massachusetts	Oct. 28, 1799
Balloon	Moses McFarland	Richmond, Va.	Feb. 5, 1810
Barilla, manufacturing from tobacco stems, &c.	George Easterly	New York	June 12, 1801
Bark, extracting	Samuel Downing	New Jersey	April 19, 1802
Do essence of	Do	Pennsylvania	June 7, 1803
Do from dying	Thomas Bedwell and William Mitchell	Do	Jan. 25, 1804
Do preparation	Thomas Bender	Frankfort, Pa.	Oct. 30, 1810
Do quercurton, preparing	Nathan Harper	Walpole, N. H.	Oct. 20, 1812
Do extract of	William G. Fessenden	Philadelphia, Pa.	Aug. 20, 1822
Do quercurton, preparation	James Elliott	Massachusetts	Jan. 17, 1801
Bitters, jaundice	Jesse Wheaton	New Haven, Ct.	Feb. 12, 1810
Camphor, refining	Henry Mead	Charlestown, Mass.	April 27, 1812
Do do	Job Green	Richmond, Va.	May 17, 1814
Ceiling, fire proof	Benjamin J. Harris	Massachusetts	Nov. 16, 1804
©ement for roofs of houses	David Stodder	Baltimore, Md.	Mar. 13, 1809
Do do	Charles Morneweck	Newburg, N. C.	Aug. 15, 1814
Do for walls, ceilings, and floors	A. Scott	Saratoga, N. Y.	Nov. 11, 1617
Do to be used under water	John Grant		

Do	water proof	Feb.	1, 1820
Do	do do	Do	Feb. 17, 1821
Do	do do	Richmond, Va.	Sept. 26, 1821
Do	fire proof	Mifflin towns, Pa.	May 10, 1824
Do	threefold	New York	Sept. 9, 1825
Do	water	Lebanon, Pa.	Jan. 11, 1826
Do	do	Washington, D.C.	Jan. 16, 1827
60	Do for roofs or walls of buildings	New York	July 13, 1827
Do	imitation of marble	Do	Nov. 13, 1827
Do	fire and water proof	Middlesex	Sept. 3, 1828
Do	water proof, paint or varnish	New York	Jan. 31, 1829
Do	Charcoal, manufacturing	Philadelphia, Pa.	June 28, 1816
Do	Crystallizing tin	Albany, N.Y.	Aug. 26, 1818
Color, yellow	for painting	Pennsylvania	April 20, 1796
Do	substitute for indigo	Do	Feb. 24, 1797
Do	permanent for calicoes	Poughkeepsie, N.Y.	May 15, 1809
Do	preparation of with lime	Philadelphia, Pa.	Dec. 24, 1814
Do	making for painting	Broadalbin, N.Y.	April 12, 1815
Coloring, preparation of green	Baron A. De Carren-lefevez	Dec. 30, 1803	Dec. 30, 1803
Composition for flooring houses	New York	Oct. 12, 1807	Oct. 12, 1807
Do	for the preservation of wood and brick	Vermont	April 12, 1794
Do	to render woollen cloth water proof	New York	Feb. 1, 1800
Do	for roofs and floors of houses	Boston, Mass.	Oct. 21, 1806
Do	for the cure of cancers	Baltimore, Md.	Feb. 3, 1807
Do	for mending china	Albany, N.Y.	Oct. 8, 1810
Do	for taking off the glaze of mill stones	Weston, Mass.	June 10, 1811
Do	for rendering leather impervious to water	Derby, Ct.	June 10, 1813
Do	for black lead pencils	New York	Nov. 4, 1813
		Salem, Mass.	Feb. 26, 1814

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Composition to be used instead of jostic -	Frederick Eckstein & James Melhenny	Philadelphia, Pa.	Oct. 12, 1814
Do for softening cast or crude iron	Abel Scott & Alonzo Selden	Winchester, N. H.	Nov. 8, 1814
Do for axletrees	Aaron Nash	Hudson, N. Y.	Dec. 17, 1814
Do for covering houses	Abijah Rogers	Philadelphia, Pa.	Mar. 14, 1817
Do for copy, writing, and drawing books	Richard Wall	Dedham, Mass.	April 28, 1817
Do for pencils	Jos. Ellis	New Haven, Ct.	April 26, 1819
Do for razor straps	David Ritter	Mount Pleasant, O.	Mar. 9, 1822
Do pharmaceutical	John C. Bay	Brooklyn, N. Y.	Jan. 26, 1825
Do marble, granite, &c.	Louis Matthey	Fredericktown, Md.	Mar. 7, 1827
Do to prevent scurvy	James U. Armour	Pittsburg, Pa.	Sept. 28, 1827
Do for roofs, water and fire proof	David Greer	Henry B. Chew & E. V. Freeman	April 25, 1828
Do used in the fusion of metals or ores	Thomas White	Baltimore, Md.	April 7, 1829
Do for teeth	Charity S. Long	St. Clairsville, O.	July 29, 1829
Consumption and other complaints, curing	Stephen Dempsey	Philadelphia, Pa.	May 27, 1812
Copper, acetate of	Isaac Tyson	New York	Feb. 4, 1813
Copperas, making	Simon Lazarus	Baltimore, Md.	Feb. 15, 1827
Cordial, anti-bilious	Samuel Chamberlain	Virginia	Dec. 21, 1802
Do bilious	Daniel E. Smith	Massachusetts	Dec. 31, 1804
Cough drops	Sophia Usher	Cornwall, Ct.	June 30, 1826
Cream of tartar, carbonated liquid	John Pearson	New York	Sept. 11, 1819
Dye, blue	Truman Powell	Connecticut	Mar. 3, 1800
Dysentery, dyspepsia, &c.		Burlington, Vt.	Feb. 2, 1828

Earth, concentration of the volatile parts of calcareous	John Fowler	Pennsylvania	Nov. 16, 1797
Elixir, vegetable	Samuel Cooley	Bolton, Ct.	Nov. 12, 1803
Do restorative	Harvey Frank	Northampton, Mass.	Jan. 6, 1812
Do of life	Jules Riccio	Baltimore, Md.	Mar. 29, 1817
Febrifuge	Asa Johnson	Northumberland, Pa.	Jan. 11, 1812
Galvanism for salivation	William Phoebus	New York	June 9, 1807
Gas, carbured hydrogen	Benjamin Kugler	Philadelphia, Pa.	April 23, 1816
Do combustible	William Garnett	New York	Dec. 27, 1829
Glue, fish, or ichyocolla	Daniel Waldron	Do	Mar. 4, 1812
Do manufacturing	John H. Mark	Philadelphia, Pa.	Oct. 3, 1822
Gold and silver, separating from earth	Wm. H. Folger	Spartansburg, S. C.	Feb. 13, 1828
Do washing and separating	Richard Lee	Erwinsville, N. C.	July 8, 1829
Do do	Wm. H. Folger	Charlotte, N. C.	Sept. 10, 1829
Do do and separating	Do	Do	Nov. 18, 1829
Gout nostrum	Elisha Smith	New York	Dec. 15, 1828
Hides, protecting against moths	Samuel Storm	Do	Feb. 17, 1827
Ink, printers'	Berry Chase	New London, Ct.	June 28, 1810
Isinglass	Wm. Hall	Boston, Mass.	Mar. 23, 1822
Do	John Hastings	Cambridge, Mass.	Aug. 14, 1822
Lampblack	Joseph Hastings	Do	Aug. 15, 1826
Lead, white, method of washing	Sam'l. Witherill, jr.	Philadelphia, Pa.	Oct. 29, 1811
Do do manufacturing	Do	Do	Oct. 29, 1811
Do do screening and separating corroded from un-	Do	Do	Nov. 1, 1811
corroded parts in warm water	Do	Do	Nov. 1, 1811
Do red, manufacturing	Alex. J. Hamilton	New York	Nov. 8, 1813
Do white, and flake white, manufacturing	Elisha De Butts	Baltimore, Md.	May 5, 1814
Do do manufacturing	Jas. Welsh and Thos.	Philadelphia, Pa.	Aug. 16, 1814
Do do	Evans	Do	Oct. 13, 1817
Do do	George F. Hagner	Do	Mar. 28, 1818
	Edward Clark	Do	

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	BEDSIDIENCE.	WHEN ISSUED.
Lead, white, manufacturing	- - - - -	Joseph Richards	Philadelphia, Pa.
Do do preparing	- - - - -	John Burney	New Haven Town'p, O.
Ley, cleansing, melting pot ash	- - - - -	Jonathan Jones	Fabius, N. Y.
Lime, hydraulic	- - - - -	Robert Leckie	Washington, D. C.
Lotion, magic	- - - - -	John Hopkins	Philadelphia, Pa.
Magnesia, preparing	- - - - -	Wm. Dunn	Boston, Mass.
Do	- - - - -	Do	Do
Do medicated liquid	- - - - -	John Cullen	Philadelphia, Pa.
Mead, carbonated sarsaparilla	- - - - -	John Schieffelin	New York
Medicine for curing the bite of a mad dog	- - - - -	Elizabeth Stoy, executrix of Wm. Stoy	Lebanon, Pa.
Do cases	- - - - -	Allen Harrington	Otsego, N. Y.
Do called canker drops	- - - - -	Saml. Thompson	Surry, N. H.
Do anti-dysenteric	- - - - -	David Hollbrook	Onondaga co., N. Y.
Do	- - - - -	Lorenzo Dow	Hebron, Ct.
Do	- - - - -	John G. Vought	Rochester, N. Y.
Do	- - - - -	John Prentiss	New London, Ct.
Do for scrofula, &c.	- - - - -	Saml. Thompson	Boston, Mass.
Do administering by steam	- - - - -	Gideon Jaques	Wilmington, Del.
Do	- - - - -	Charles Whitlaw	New York
Do	- - - - -	Fitzgerald Bird	Hancock, Geo.
Do	- - - - -	John Dent	Augusta, Geo.
Mineral water, artificial	- - - - -	Joseph Hawkins	Baltimore, Md.
Do fountain, family	- - - - -	Garrett E. Pendergast	Philadelphia, Pa.
Do waters, manufacturing	- - - - -	Benj. Marshall	Albany, N. Y.

Do	do	apparatus	-	James S. Ewing	Feb. 10, 1817
Do	do	do	-	Sam'l. Fahnestock	Lancaster, Pa.
Do	do	giving temperature to	-	Joseph Hawkins	Philadelphia, Pa.
Oil, whale, clarifying	-	-	-	Benj'. Folger	Hudson, N. Y.
Do sperm,	do	-	-	Richd. Robotham	New York
Do infusing into leather	-	-	-	Henry Guest	New Jersey
Do sod, for leather	-	-	-	George Poyzer	Philadelphia, Pa.
Do lamp, purifying	-	-	-	Eli Fourestier	Do
Do linseed, preparing for varnish	-	-	-	Nich's. S. Parmentier	Do
Do bene	-	-	-	Wm. Few	New York
Do Columbian	-	-	-	Thomas Paul	Baltimore, Md.
Do purifying	-	-	-	Lewis Mecesne	New York
Do castor, clarifying	-	-	-	John Hallock	Burlington, N. J.
Do cotton seed for linseed	-	-	-	Geo. P. Digges	Albemarle, Va.
Do castor	-	-	-	Timothy Pharo	Tuckerton, N. J.
Do pyroligneous and acid, used in tanning	-	-	-	Horace H. Hayden	Baltimore, Md.
Do from poppy seed	-	-	-	Daniel Markum	Lenox, N. Y.
Do pressing from flax seed	-	-	-	Charles Howe,	Mooretown, Vt.
Do refining all kinds	-	-	-	}{ Fred. Brewster,	Colchester, Vt.
Do substitute for, in mixing paints	-	-	-	}{ and John Johnson	Chittenden, Vt.
Ointment	-	-	-	Charles E. Ruggles	New York
Ores, improvement in working	-	-	-	L. J. Van Kleek	Poughkeepsie, N. Y.
Do making into paints	-	-	-	Wm. Judkins	Smithfield, O.
Do	do	-	-	Vincent King & Jer.	King
Ornamenting walls and ceilings	-	-	-	King	Belair, Md.
Oxymuriate of lime, preparing	-	-	-	Rob. Nicholson	Bairdstown, Ky.
Paint and colors, preparing	-	-	-	Borden Wilbur	Whitestown, N. Y.
Do brown	-	-	-	Wm. West	Philadelphia, Pa.
			-	Jonas Kendall	Lincoln, Mass.
			-	Hy. Alexander	Baltimore, Md.
			-	Thos. Miller, jr.	Madison co., N. Y.
			-		Jan. 25, 1815

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Paint for plastered walls	Alex'r. Thompson	Bethany, N. Y.	Feb. 2, 1828
Do yellow	B. A. Carrendeffez	New York	Sept. 2, 1806
Paste, Italian, maccaroni, &c.	John B. Saltori	Philadelphia, Pa.	July 13, 1807
Do for razor straps	Elisha M. Pomeroy	New Haven, Ct.	Jan. 24, 1821
Pearl ash, making without ovens	Reuben Ainsworth	-	May 14, 1808
Pigment, black, for printing or painting in oil or water	Jacob Cist	Wilkesbarre, Pa.	Oct. 28, 1808
Pills, bilious	Samuel Lee, jr.	Connecticut	April 30, 1796
Do anti-bilious	Benj. Duvall	Virginia	May 3, 1797
Do composition for bilious	Samuel Cooley	Connecticut	June 6, 1798
Do anti-bilious	Saml. H. P. Lee	Do	June 26, 1799
Do anti-bilious	John Hawks	Do	Dec. 14, 1799
Do anti-bilious do	Thos. H. Rawson	Do	July 24, 1802
Do family	Do	Do	April 4, 1803
Do rheumatic	Daniel Coit	Boston, Mass.	Oct. 5, 1803
Do machine for making Lee's Windham bilious	George B. Dexter	-	Dec. 18, 1805
Do Lee's Windham bilious rheumatic	Webster Lewis	New London, Ct.	July 10, 1807
Do Lee's bilious	Samuel Lee	Biddeford, Mass.	May 24, 1810
Do family	Ezra Deane	New London, Ct.	Jan. 13, 1814
Do anti-dyspeptic	Samuel H. P. Lee	New York	Feb. 8, 1814
Do do	David Coit	-	June 17, 1820
Do rheumatic	George Smith	Do	Aug. 7, 1821
Pot ash and pearl ash, manufacturing	J. C. M. Brockway	Lyne, Ct.	Mar. 13, 1822
Do	Ezra Deane	Biddeford, Me.	Feb. 2, 1828
Do	Samuel Hopkins	Vermont	July 31, 1790
Do	Edw'd Ryan	-	Nov. 16, 1796

Do		Massachusetts	Nov. 17, 1796
Do	Thomas Power	New York	Sept. 19, 1801
Do	Edw'd Crafts, Jr.	-	May 12, 1804
Do	Jos. Bellows, Jr., and	-	-
	Eben White	-	-
Do	Alex. McNitt	Geneva, N. Y.	Dec. 29, 1804
Do	Jac. Latting	New York	June 15, 1805
Do	Isaac Eddy	Boston, Mass.	April 26, 1816
Do	Abel Brown	Hudson, N. Y.	Dec. 31, 1823
Do	Robt. Hare	Philadelphia, Pa.	Oct. 17, 1804
Do	Jas. Lloyd	Adams co., Pa.	Aug. 22, 1811
Do	Benjamin Gorton	New York	May 11, 1813
Do	Borden Wilbor	Washington co., N. Y.	Nov. 29, 1802
Do	Abner Vansant	Jefferson co., Miss.	Feb. 4, 1811
Do	Ed. Clark	New York	Sept. 29, 1823
Do		-	Dec. 4, 1828
Sulphate of, separating and collecting and pearl ash			
Pulverizing drugs			
Rheumatic liniment			
Ripening and keeping malt liquor and cider			
Rocket, liquid combustible, &c.			
Salts, neutral, from alkali			
Do manufacturing by evaporation			
Do from pot or pearl ash			
Do metallic			
Saturating water with carbonic acid gas or fixed air, and method of connecting fixed tubes for the conveyance of fluids subjected to violent pressure			
Schagliola, shining	-	Chas. D. Simmons &	Aug. 16, 1810
Seal skins, manufacturing	-	Jean J. Riondell	June 18, 1827
Soap, making	-	Salvadore Pinistri	Feb. 16, 1796
Spirits, extracting from starch water	-	James Eaton	Do
Do, and wines, ameliorating	-	John Nazro	Jan. 6, 1797
Starch, potato	-	John Naylor	Mar. 7, 1803
Do elastic clear, from wheat, and making spirits of the residue, and taking mildews from linen	-	William Thornton	Sept. 7, 1809
Do from wheat or other vegetable matter	-	John Biddis	Mar. 22, 1802
Stone, making artificial	-	Elisha Perkins	Shrewsbury, N. J.
	-	Do	Do
	-	Robert McKay, Dan. McKenzie, and Jas. Woodhull	Sept. 16, 1810 Feb. 26, 1811
	-	Caledonia, N. Y.	Jan. 16, 1828

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Sulphur, sublimating	George B. Dexter	Boston, Mass.	Oct. 9, 1806
Do do	George Robinson	Elizabethtown, N. J.	Nov. 16, 1812
Sugar candy, making	Lawrence Astolfi	Philadelphia, Pa.	Nov. 28, 1812
Sumach, manufacturing	Roswell Saltonstall	New London, Ct.	Feb. 28, 1793
Do do	Do	Do	May 1, 1793
Do do	Jos. Hillard	Connecticut	May 12, 1796
Do extracting essence of	Nath'l Ladd	New Hampshire	Feb. 12, 1800
Do manufacturing	Comfort Hoyt, Jr.	Connecticut	April 7, 1800
Syphilis, cure of	Jos. Mosher	Philadelphia, Pa.	Jan. 26, 1816
Tan, mode of extracting from bark	John Biddis and Thos. Bedwell	Do	Aug. 10, 1791
Tannin, extracting	William Knapp	Milford, N. Y.	April 5, 1823
Do do	D. Roe, C. F. Kellogg, and J. W. Gayley	Cincinnati, Ohio	Oct. 3, 1823
Do do	Wm. Lowber	Philadelphia, Pa.	Mar. 15, 1825
Do improvement on Demand's mode of obtaining	Jos. Giles	Guilford, Vt.	April 11, 1825
Do extracting by steam	Wm. Coburn	Gardiner, Me.	Nov. 1, 1828
Tanning leather	Jas. Davis	Massachusetts	April 14, 1796
Do and mode of lifting hydes	Jas. Coxe	New Jersey	Feb. 20, 1800
Do	Sam'l Parker	Billerica, Mass.	July 9, 1808
Do hides	Edw'd Siter	Spread Eagle, Pa.	Aug. 14, 1810
Do leather	Jos. Barker	Deerfield, N. Y.	April 10, 1811
Do	Wm. Hollingsworth	Elkton, Md.	July 30, 1811
Do	Alex'r H. Avery	Bennington, Vt.	Sept. 30, 1811

Do	Jos. Barker	Deerfield, N. Y.	Jan. 10, 1812
Do	Sam'l Currie	Philadelphia, Pa.	Mar. 28, 1812
Do	Chris'r Luther and J. Smith, assigned to Daniel Renner	Georgetown, D. C.	May 5, 1812
Do	Wm. Edwards	Northampton, Mass.	Oct. 19, 1812
Do	Do	Do	Dec. 30, 1812
Do	Do	Do	April 3, 1816
Do	Bradford A. Potter	Manlius, N. Y.	Sept. 26, 1816
Do	Jon'n Prescott	Augusta, Me.	Mar. 6, 1818
Do	Jas. Batchelder	Grafton, N. H.	Dec. 22, 1818
Do	Wm. Sheldon	Springfield, Mass.	Feb. 26, 1819
Do	Jno. Lansing, jr.	Albany, N. Y.	April 30, 1819
Do	Leonard Jacobs	Missouri	Feb. 10, 1822
Do	Joshua Galbraith	Trenton, N. J.	Oct. 15, 1823
Do	J. Wampler and G. Matthews	Steubenville, O.	Aug. 27, 1824
Do	Henry Breney	Lebanon, O.	Mar. 24, 1825
Do	Sam'l and Amos Wil. liams		
Do	Leonard Jacobs	Orange, N. J.	Nov. 12, 1825
Do	Ormond Cogswell	Richmond, Va.	Mar. 1, 1826
Do	E. Shove and Thos. Hunt	Cincinnati, O.	Sept. 18, 1827
Do	Locke, N. Y.		May 13, 1828
Do	Tompkinsville, Ky.		Mar. 3, 1829
Do	Gr. Barrington, Mass.		Nov. 24, 1810
Do	Strafford, N. H.		Jan. 24, 1811
Do	Florence, O.		April 24, 1826
Do	Norwich, Vt.		Feb. 28, 1806
Do	New Brunswick, N.J.		Jan. 20, 1826
61	and currying hides, &c.		
Do	bark of chestnut tree in hemlock		
Do	and manufacturing hides		
Do	and tan yards Tan vats, heating water in them to expedite tanning		
Do	Do		
Do	constructing		
Do	Tansy essence		
Do	Tincture for curing corns		

LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Toothach, relieving by steam	Lemuel Merritt and Sam'l C. Rogers	New York	Dec. 27, 1815
Do remedy	Jos. Utley	Philadelphia, Pa.	Nov. 5, 1817
Do specific	Sam'l Pennington	Mount Pleasant, O.	July 30, 1829
Turpentine, extracting by steam	Hez. Kelly	Brooklyn, N. Y.	May 17, 1816
Varnish for leather	Jno. David	Philadelphia, Pa.	May 5, 1810
Do elastic gum	Jac. F. Hummel	Do	April 29, 1813
Do for furniture	Marcus Curtis	Troy, N. Y.	April 22, 1826
Vegetable wash for the lungs	Geo. Rogers	Northampton, Mass.	Dec. 31, 1808
Verdigris, manufacturing	Geo. F. Hagner	Philadelphia, Pa.	Oct. 13, 1817
Vermiluge, preparing	Jos. Lehman	Do	Aug. 11, 1807
Vitriol, making oil of	Rd. Marden	New York	Aug. 21, 1812
Vitriolic test for bank bills	Abel Brewster	Hartford, Ct.	July 11, 1808
Wine, making from elder	Henry Seabolt	Scipio, N. Y.	Nov. 11, 1812
Do	Ezra B. Corkings	Bristol, N. Y.	Oct. 8, 1813

LIST OF PATENTEES—CHEMICAL COMPOSITIONS.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Allison, Nathaniel S. & Benjamin Kugler	Philadelphia, Pa.	Acid, vegetable, preparation of	June 5, 1812
Aulder, Ez.	New York	Asiatic lenitive for pain	Oct. 26, 1818
Allurne, Lawrence	Pennsylvania	Color for painting	Feb. 24, 1797
Armour, Jos. U.	Fredericktown, Md.	Composition to prevent scury	Sept. 28, 1827
Alexander, Henry	Baltimore, Md.	Paint and colors, preparing	Jan. 14, 1813
Ainsworth, Reuben	Philadelphia, Pa.	Pearl ash without ovens, making	May 14, 1808
Astolfi, Laurence	Bennington, Vt.	Sugar candy, making	Nov. 28, 1812
Avery, Alex. H.	Boston, Mass.	Tanning	Sept. 30, 1811
Bell, Benjamin	Pennsylvania	Acid, sulphuric	Nov. 7, 1811
Bedwell, Thomas, and	Do	Bark, extracting from dying	June 7, 1803
William Mitchell	Do	Do preparation	Jan. 25, 1804
Benger, Thomas	Do	Color, yellow	April 20, 1796
Bedwell, Thomas	Philadelphia, Pa.	Do for calicoes, permanent	Dec. 24, 1814
Boulin, Augustus	Weston, Mass.	Composition for mending china	June 10, 1811
Bascom, Harvey	New York	Do for rendering leather impervious to water	Nov. 4, 1813
Board, Jos.	Mount Pleasant, O.	Do pharmaceutical	Jan. 26, 1825
Bay, John C.	New Haven town, p. O.	White lead, preparing	Jan. 2, 1829
Burney, John	Hancock, Ga.	Medicine	April 16, 1828
Bird, Fitzgerald	Colchester, Vt.	Oil, pressing from flax seed	May 24, 1828
Brewster, Frederick &	Chittenden, Vt.	Pills, anti-dysenteric	Mar. 13, 1822
John Johnston	Lyne, Ct.	Pot ash	Dec. 29, 1804
Brockway, J. C. M.			
Bellows, Jos., jr., and			
Eben White			

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

NAMES OF PATENTEEs.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Brown, Abel	Hudson, N. Y.	Rheumatic liniment	Oct. 17, 1804
Biddis, John	Pennsylvania	Starch, potato	Mar. 22, 1802
Biddis, John, & Thos. Bedwell	Philadelphia, Pa. Deerfield, N. Y. Do	Tan from bark, mode of extracting Tanning leather Do Do Do Tan vats Vitriolic test for bank bills Cement for roofs or walls of buildings Do Composition for the preservation of wood and brick	Aug. 10, 1791 April 10, 1811 Jan. 10, 1812 Dec. 22, 1818 Mar. 24, 1825 Jan. 24, 1811 July 11, 1808 July 13, 1827 Sept. 3, 1828 Feb. 1, 1800
Barker, Jos.	Grafton, N. H.		
Bachelder, James	Lebanon, O.		
Bretney, Henry	Strafford, N. H.		
Burley, Nathaniel	Hartford, Ct.		
Brewster, Abel	New York		
Clinton, Charles	Middlesex		
Coburn, James	New York		
Constant, Cyrus			
Chew, Henry B., and E. V. Freeman	Baltimore, Md.	Do used in the fusion of metals or ores	April 7, 1829
Chamberlain, Samuel	Massachusetts	Cordial, biliary	Dec. 31, 1804
Cooley, Samuel	Bolton, Ct.	Elixir, vegetable	Nov. 12, 1803
Chase, Berry	New London, Ct.	Ink, printers'	June 28, 1810
Clark, Edward	Philadelphia	Lead, manufacturing white	Mar. 28, 1818
Cullen, John	Do	Magnesia, medicated liquid	May 4, 1818
Carrendeffez, B. A.	New York	Paint, yellow	Sept. 2, 1806
Cist, Jacob	Wilkesbarre, Pa.	Pigment for printing or painting in oil or water, black	Oct. 28, 1808
Cooley, Samuel	Connecticut	Pills, composition for	June 6, 1798
Coit, Daniel	New York	Pills, family	Oct. 5, 1803
Coit, David		Do	June 17, 1820

Crafts, Edward, jr.	Geneva, N. Y.	Pot and pearl ash	May 12, 1804
Clark, Ed.	New York	Salts, metallic	Dec. 4, 1828
Coburn, William	Gardiner, Me.	Tannin, by steam, extracting	Nov. 1, 1828
Coxe, James	New Jersey	Tanning and mode of lifting hides	Feb. 20, 1800
Currie, Samuel	Philadelphia, Pa.	Do	Mar. 28, 1812
Cogswell, Ormond	Cincinnati, O.	Do	Sept. 18, 1827
Curtis, Marcus	Troy, N. Y.	Varnish for furniture	April 22, 1826
Cookings, Ezra B.	Bristol, N. Y.	Wine from cider, making	Oct. 8, 1813
Downing, Samuel	New York	Bark, extracting	June 12, 1801
Do	New Jersey	Do do essence of	April 19, 1802
De Riener, Samuel	Poughkeepsie, N. Y.	Color, substitute for indigo	May 15, 1809
DeCarrendeffez, Baron A.	New York	Green coloring, preparation of	Oct. 12, 1807
De Nirot, Louis	Baltimore, Md.	Composition for roofs and floors of houses	Feb. 3, 1807
Dempsey, Stephen	New York	Copper, acetate of	Feb. 4, 1813
De Butts, Elisha	Baltimore, Md.	Lead, manufacturing white and flake white	May 5, 1814
Dunn, William	Boston, Mass.	Magnesia, preparing	April 1, 1812
Do	Do	Do	April 8, 1813
Dow, Lorenzo	Hebron, Ct.	Medicine	Nov. 24, 1820
Dent, John	Augusta, Ga.	Do	July 2, 1828
Digges, George P.	Albemarle, Va.	Oil, cotton seed for linseed	Dec. 16, 1820
Duvall, Benjamin	Virginia	Pills, anti-bilious	May 3, 1797
Dexter, George B.	Boston, Mass.	Do rheumatic	Dec. 18, 1805
Deane, Ezra	Biddeford, Mass.	Do do	Jan. 13, 1814
Do	Do	Do do	Feb. 2, 1828
Dexter, George B.	Boston, Mass.	Sulphur, sublimating	Oct. 9, 1806
Davis, James	Massachusetts	Leather, tanning	April 14, 1796
David, John	Philadelphia, Pa.	Varnish for leather	May 5, 1810
Easterly, George	Richmond, Va.	Barilla from tobacco stems, &c., manufacturing	Feb. 5, 1810
Elliott, James	Philadelphia, Pa.	Bark, quercitron, preparation of	Aug. 20, 1822
Eckstein, Frederick, &	Do	Composition to be used instead of jostic	Oct. 12, 1814
James McIlhenny	Do		

LIST OF PATENTEE—CHEMICAL COMPOSITIONS—Continued.

NAMES OF PATENTEE.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Ellis, Jos.	Dedham, Mass.	Composition for pencils	April 26, 1819
Ewing, James L.	Philadelphia, Pa.	Mineral waters, apparatus for	Feb. 10, 1817
Eddy, Isaac	Boston, Mass.	Drugs, pulverizing	Dec. 31, 1823
Eaton, James	Massachusetts	Seal skins, manufacturing	Feb. 16, 1796
Edwards, William	Northampton, Mass.	Tanning	Oct. 19, 1812
Do	Do	Do sole leather	Dec. 30, 1812
Do	Do	Do	April 3, 1816
Fessenden, Wm. G.	Walpole, N. H.	Bark, extract of	Oct. 20, 1812
Fowler, John	Pennsylvania	Earth, concentration of the volatile parts of calcareous	Nov. 16, 1796
Frink, Harvey	Northampton, Mass.	Elixir, restorative	Jan. 6, 1812
Folger, Wm. H.	Spartansburg, S. C.	Gold and silver, separating from the earth	Feb. 13, 1828
Do	Charlotte, N. C.	Do washing	Sept. 10, 1829
Do	Do	Do do and separating	Nov. 18, 1829
Fahnstock, Samuel	Lancaster, Pa.	Mineral waters, apparatus	April 23, 1819
Folger, Benjamin	Hudson, N. Y.	Oil, clarifying whale	Jan. 2, 1792
Fourestier, Eli	Philadelphia, Pa.	Do lamp, clarifying	Nov. 17, 1808
Few, Wm.	New York	Do bone	Mar. 1 st , 1809
Frobisher, Wm.	Massachusetts	Pot ash and pearl ash, manufacturing	Nov. 17, 1796
Giraud, John J.	Baltimore, Md.	Anti-bilious grand depurative unguis	Sept. 9, 1817
Green, Job	Charlestown, Mass.	Camphor, refining	April 27, 1812
Grant, John	Saratoga, N. Y.	Cement to be used under water	Nov. 11, 1817
Godfrey, Ezra	New York	Do threefold	Sept. 9, 1825
Guilford, Simeon	Lebanon, Pa.	Do water	Jan. 11, 1826
Do	Washington, D. C.	Do do	Jan. 16, 1827
Guy, Frs.		Color for painting, making	Dec. 30, 1803

Greer, David	Pittsburg, Pa.	Composition for roofs, water and fire proof	April 25, 1828
Garnett, Wm.	New York	Gas, combustible	Dec. 27, 1822
Guest, Henry	New Jersey	Infusing oil into leather	July 16, 1801
Gordon, Benjamin	New York	Salts from alkali, neutral	Nov. 29, 1802
Giles, Jos.	Guilford, Vt.	Tannin, improvement on Demand's mode of obtaining	April 1, 1825
Gabraith, Joshua	Trenton, N. J.	Tanning	Oct. 15, 1823
Harper, Nathan	Frankfort, Pa.	Bark, preparing quercitron	Oct. 30, 1810
Harris, Benj. J.	Richmond, Va.	Ceiling, fire proof	May 17, 1814
Heinen, Henry	Mifflin Township, Pa.	Cement, fire proof	May 10, 1814
Howe, Jno. T.	New York	Cement, paint or varnish, water proof	Jan. 31, 1829
Hall, Wm.	Boston, Mass.	Isinglass	Mar. 23, 1822
Hastings, Jno.	Cambridge, Mass.	Do	Aug. 14, 1822
Hastings, Jos.	Do	Lampblack	Aug. 15, 1826
Hamilton, Alex'r J.	New York	Lead, manufacturing white and flake white	Nov. 8, 1813
Hagner, Geo. F.	Philadelphia, Pa.	Do	Oct. 13, 1817
Hopkins, Jno.	Do	do	Aug. 24, 1809
Harrington, Allen	Otsego, N. Y.	Lotion, magic	July 16, 1811
Holbrook, David	Onondaga co., N. Y.	Medicine cases	Mar. 28, 1814
Hawkins, Jos.	Baltimore, Md.	Do called canker drops	Sept. 7, 1809
Do	Philadelphia	Mineral water, artificial	April 5, 1823
Hallock, Jno.	Burlington, N. J.	Do giving temperature to	Nov. 5, 1818
Hayden, Horace H.	Baltimore, Md.	Oil, clarifying castor	Nov. 26, 1823
Howe, Chas.	Mooretown, Vt.	Do pyroligneous and acid used in tanning	
Hawks, Jno.	Connecticut	Do pressing from flaxseed	
Hopkins, Sam'l	Philadelphia, Pa.	Pills	
Hare, Rob't	Do	Pot ash and pearl ash, manufacturing	Dec. 14, 1799
Hillard, Jno.	Connecticut	Ripening and keeping malt liquor and cider	July 31, 1790
Hoyt, Comfort, jr.	Do	Sumac, manufacturing	Aug. 22, 1811
Hollingsworth, Wm.	Elkton, Md.	Do	May 12, 1796
Henderson, Allen	Gr. Barrington, Mass.	Tanning	April 7, 1800
Higgins, Aaron	Florence, O.	Tan vats, heating water in them to expedite tanning	July 30, 1811
		Do constructing	Nov. 24, 1810
		Do	April 24, 1826

LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Hummel, Jac. F.	Philadelphia, Pa.	Varnish, elastic gum	April 29, 1813
Hagner, Geo. F.	do	Verdigris, manufacturing	Oct. 13, 1817
Johnson, Asa	Northumberland, Pa.	Febrifuge	Jan. 11, 1812
Jones, Jona.	Fabius, N. Y.	Ley, cleansing, melting pot ash	Feb. 11, 1809
Jacques, Gideon	Wilmington, Del.	Medicine for scrofula, &c.	July 16, 1824
Judkins, Wm.	Smithfield, O.	Ointment	June 26, 1816
Jacobs, Leonard	Missouri	Tanning	Feb. 10, 1823
Do	Richmond, Va.	Do	Mar. 1, 1826
Johnson, Leon'ld B.	Tompkinsville, Ky.	Do and tan yards	Mar. 3, 1829
Kuriz, And'w	Philadelphia, Pa.	Charcoal, manufacturing	June 28, 1816
Kugler, Benj.	Do	Gas, carbureted hydrogen	April 23, 1816
King, Vincent, & Jer.	Belair, Md.	Ores, improvement in working	May 30, 1811
King	Lincoln, Mass.	Oxymuriate of lime, preparing	Jan. 28, 1820
Kendall, Jonas	Milford, N. Y.	Tannin, extracting	April 5, 1823
Knapp, Wm.	Brooklyn, N. Y.	Turpentine by steam, extracting	Mar. 17, 1816
Kelly, Hez.	Philadelphia, Pa.	Consumption and other complaints, curing	May 27, 1812
Long, Charity S.	Virginia	Cordial, anti bilious	Dec. 21, 1802
Lozarus, Simon	Erwinsville, N. C.	Gold, washing and separating	July 8, 1829
Lee, Richard	Washington city, D.C.	Lime, hydraulic	Mar. 31, 1829
Leekie, Rob.	Connecticut	Pills, bilious	April 30, 1796
Lee, Sam'l, Jr.	Do	Do do	June 26, 1799
Lee, Sam'l H. P.	—	Do machine for making	July 10, 1807
Lewis, Webster	—	Do Lee's Windham bilious	May 24, 1810
Lee, Sam'l	New London, Ct.	Do do bilious	Feb. 8, 1814
Lee, Sam'l H. P.	Do	Do	

Latting, Jas.	New York	Pot and pearl ashes	April 26, 1816
Lloyd, Jas.	Adams co., Pa.	Rocket, liquid, combustible, &c.	May 11, 1813
Ludd, Nath'l	New Hampshire	Somach, extracting essence of	Feb. 12, 1796
Lowber, Wm	Philadelphia, Pa.	Tannin by a water press, extracting	Mar. 15, 1825
Luther, Chris'r, and J. Smith, assigned to 62 Daniel Renner	Georgetown, D. C.	Tanning	April 26, 1816
Lansing, Jno. jr.	Albany, N. Y.	Do in hemlock	May 11, 1813
Lehman, Jos.	Philadelphia, Pa.	Vermifuge, preparing	Feb. 12, 1796
Mazzy, John	Massachusetts	Alkali, from marine salt and kelp, extracting	Mar. 15, 1825
Macfarland, Moses	Do	Balloon	May 5, 1812
Mead, Henry	New Haven, Ct.	Camphor, refining	April 30, 1819
Morneweck, Chas.	Baltimore, Md.	Cement for roofs of houses	Aug. 11, 1807
Matthey, Louis	Brooklyn, N. Y.	Composition, marble, granite, &c.	Jan. 6, 1797
Mark, John H.	Philadelphia, Pa.	Glue, manufacturing	Oct. 28, 1799
Marshall, Benjamin	Albany, N. Y.	Mineral waters, manufacturing	Feb. 12, 1810
Necesne, Lewis	New York	Oil, purifying	Mar. 13, 1809
Markum, Daniel	Lenox, N. Y.	Oil from poppy seed	Mar. 7, 1827
Miller, Thomas, Jr.	Madison co., N. Y.	Paint, brown	Oct. 3, 1822
McNitt, Alexander	Geneva, N. Y.	Separating and collecting sulphate of pot ash	Dec. 5, 1815
McKay, Robert, Daniel	Caledonia, N. Y.	June 23, 1812	
McKenzie, and Jos.	Philadelphia, Pa.	Stone, making artificial	June 23, 1812
Woodhull	Philadelphia, Pa.	Syphilis, cure of	Jan. 26, 1816
Mosher, Jos.	New York	Toothach, curing by steam	Dec. 27, 1815
Merritt, Lemuel, and	Do	Vitriol, making oil of	Aug. 21, 1812
Samuel C. Rogers	Broadalbin, N. Y.	Color with lime, preparation of	April 12, 1815
Marden, Richard	Derby, Ct.	Composition for taking off the glaze of millstones	June 10, 1813
Nicholas, Jona. jr.	Do	for axletrees	Dec. 17, 1814
Noble, John	Bairdstown, Ky	Ores into paints, making	June 23, 1812
Nash, Aaron			
Nicholson, Robert			

LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Nazro, John	Massachusetts	Soap making -	Jan. 6, 1797
Naylor, John	Pennsylvania	Spirits from starch water	Mar. 7, 1803
Newton, Israel	Norwich, Vt.	Tansy essence	Feb. 28, 1806
Osgood, Charles	Salem, Mass.	Composition for black lead pencils	Feb. 26, 1814
Pearson, John	Connecticut	Dye, blue	Mar. 3, 1800
Powell, Trueman	Burlington, Vt.	Dysentery, dyspepsia, &c.	Feb. 2, 1828
Phoebus, William	New York	Galvanism for salivation	June 9, 1807
Prentiss, John	New London, Ct.	Medicine	Mar. 27, 1822
Pendergast, Garrett E.	Philadelphia, Pa.	Fountain, family mineral	Aug. 18, 1815
Poyer, George	Do	Oil, sod, for leather	May 10, 1805
Parmentier, Nich. S.	Do	Oil, linseed, preparing varnish	Jan. 30, 1809
Paul, Thomas	Baltimore, Md.	Oil, Columbian	Feb. 23, 1811
Pharo, Timothy	Tuckerton, N. J.	Oil, castor	Feb. 5, 1822
Pomeroy, Elisha M.	New Haven, Ct.	Paste for razor strops	Jan. 24, 1821
Power, Thomas	New York	Pot ash, manufacturing	Sept. 19, 1801
Pinistri, Salvadore	Do	Schagiola, shining	June 18, 1827
Perkins, Elisha	Shrewsbury, N. J.	Starch, elastic clear, from wheat, and making spirits of the residue, and taking mildews from linen	Sept. 16, 1810
Do	Do	Starch from wheat or other vegetable matter	Feb. 26, 1811
Parker, Samuel	Billerica, Mass.	Tanning	July 9, 1808
Potter, Bradford A.	Manlius, N. Y.	Do	Sept. 26, 1816
Prescott, Jonathan	Augusta, Me.	Do and currying	Mar. 6, 1818
Pennington, Samuel	Mount Pleasant, O.	Toothach specific	July 30, 1829
Usher, Sophia	New York	Cream of tartar, carbonated liquid	Sept. 11, 1819
Uteley, Jos.	-	Toothach remedy	Nov. 5, 1817

Randolph, David M.	Richmond, Va.	Sept. 26, 1821
Robotham, Richard	Vermont	April 12, 1794
Rogers, Abijah	Hudson, N. Y.	Mar. 14, 1817
Ritter, David	New Haven, Ct.	Mar. 9, 1822
Rucco, Jules	Baltimore, Md.	Mar. 29, 1817
Richards, Jos.	Philadelphia, Pa.	May 28, 1818
Robotham, Richard	New York	Aug. 14, 1799
Ruggles, Charles E.	Do	July 20, 1829
Rawson, Thomas H.	Connecticut	July 24, 1802
Do	Do	April 4, 1803
Ryan, Edward	Vermont	Nov. 16, 1796
Robinson, George	Elizabethtown, N. J.	Nov. 16, 1812
Roe, J., C. F. Kellogg, and J. W. Gazley	Cincinnati, O.	Oct. 3, 1823
Rogers, George	Northampton, Mass.	Dec. 31, 1808
Stodder, David	Massachusetts	Nov. 16, 1804
Scott, Abraham	Newburg, N. C.	Aug. 15, 1814
Scott, Abel, and Alonso Selden	Winchester, N. H.	Nov. 8, 1814
Smith, Daniel E.	Cornwall, Ct.	June 30, 1828
Smith, Elisha	New York	Dec. 15, 1828
Storm, Samuel	Do	Feb. 17, 1827
Schieffelin, John	Do	July 19, 1824
Stoy, Elizabeth, ex'x	Lebanon, Pa.	June 9, 1809
of Wm. Stoy	Philadelphia, Pa.	July 13, 1807
Saltori, John B.	New York	Aug. 7, 1821
Smith, George		
Simmons, Charles D. and Jean I. Riondell	Charleston, S. C.	Aug. 16, 1810
Saltonstall, Roswell	New London, Ct.	Feb. 28, 1793

LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Saltonstall, Roswell	New London, Ct.	Sumach, manufacturing	May 1, 1793
Siter, Edward	Spread Eagle, P. _{a.}	Tanning hides	Aug. 14, 1810
Shelden, William	Springfield, Mass.	Do bark of chestnut tree	Feb. 26, 1819
Shove, E. and Thomas Hunt	Locke, N. Y.	Do and manufacturing hides	May 13, 1828
Smith, Elisha	New Brunswick, N.J.	Tincture for curing corns	Jan. 20, 1826
Seabolt, Henry	Scipio, N. Y.	Wine from cider, making	Nov. 11, 1812
Troost, Genet	Philadelphia, Pa.	Alum from lignite, making	Mar. 3, 1817
Trembly, Benjamin	New York	Cement, imitation of marble	Nov. 13, 1827
Tyson, Isaac	Baltimore, Md.	Copperas, making	Feb. 15, 1827
Thompson, Samuel	Surry, N. H.	Medicine	Mar. 2, 1813
Do	Boston, Mass.	Do	Jan. 28, 1823
Thompson, Alexander	Bethany, N. Y.	Paint for plastered walls	Feb. 2, 1828
Thornton, William	Washington, D. C.	Spirits and wines, ameliorating	Sept. 7, 1809
Valentine, George F.	Albany, N. Y.	Crystallizing tin	Aug. 26, 1818
Vought, John G.	Rochester, N. Y.	Medicine, anti dysenteric	Dec. 4, 1821
Van Kleek, L. I.	Poughkeepsie, N. Y.	Oil in mixing paints, substitute for	Nov. 23, 1829
Vanzant, Abner	Jefferson co., Miss.	Salts from pot or pearl ash	Sept. 29, 1823
Wheaton, Jesse	Massachusetts	Bitters, jaundice	Jan. 17, 1801
White, Canvas	Whitestown, N. Y.	Cement, water proof	Feb. 1, 1820
Do	Do	Do	Feb. 17, 1821
Wightman, James P.	Boston, Mass.	Composition to render woollen cloth water proof	Oct. 21, 1806
Willard, Elias	Albany, N. Y.	Do for the cure of cancers	Oct. 8, 1810
Wall, Richard	Philadelphia, Pa.	Do for copy, writing, and drawing books	April 28, 1817
White, Thomas	St. Clairsville, O.	Do for teeth	July 29, 1829

Waldron, Daniel	New York	Glue, fish, or ichyocolla	Mar. 4, 1812
Wetherhill, Sam'l, jr.	Philadelphia, Pa.	Lead, method of washing white	Oct. 29, 1811
Do	Do	Lead, manufacturing white	Oct. 29, 1811
Do	Do	Lead, screening and separating corroded parts in <i>warm water</i> , white	Nov. 1, 1811
Do	Do	Lead, manufacturing red	Nov. 1, 1811
Welsh, James, & Thomas Evans	Philadelphia, Pa.	Lead, manufacturing white	Aug. 15, 1814
Whitlaw, Charles	New York	Medicine, administering by steam	Feb. 16, 1825
Wilbor, Borden	Whitestown, N. Y.	Ores into paints, making	Feb. 10, 1814
West, William	Philadelphia, Pa.	Ornamentation walls and ceilings	May 20, 1826
Wilbor, Borden	Washington co., N.Y.	Salts by evaporation, manufacturing	Feb. 4, 1811
Wampler, J., and G. Matthews	Steubenville, O.	Tanning	Aug. 27, 1824
Williams, Sam'& Amos	Orange, N. J.	Do	Nov. 12, 1825

LIST OF PATENTS—FINE ARTS.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Amulets	Edw'd West	Kentucky	May 19, 1800
Bank notes	George Murray	Philadelphia, Pa.	Mar. 23, 1822
Do	James Puglia	Do	Aug. 13, 1822
Bugle, Kent	Rd. Willis	West Point, N. Y.	Nov. 10, 1827
Copying machine	Cephas Thompson	Bristol, R. I.	Feb. 5, 1806
Counterfeit notes, detecting	J. Perkins	Massachusetts	Mar. 19, 1799
Do mode of engraving and printing to prevent	George Murray	Philadelphia, Pa.	Feb. 13, 1810
Do mode of preventing	Jac. Perkins	Boston, Mass.	June 16, 1810

LIST OF PATENTS—FINE ARTS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEEs.	RESIDENCE.	WHEN ISSUED.
Counterfeits, preventing, by printing on the back by use of types	John Kneass	Hartford, Ct.	April 28, 1815
Do do	Abel Brewster	New York	July 15, 1816
Do do	Richard Wilcox	Do	Sept. 19, 1823
Do do	Nathaniel Sylvester	Do	July 12, 1824
Delineator for fac similes	Jonas Wickes	Do	Sept. 9, 1825
Dies, circular, improvement on Perkins's	Jac. Perkins	Newburyport, Mass.	June 25, 1813
Do or die work, substituting for etching	G. Murray	Philadelphia, Pa.	July 15, 1813
Drawing, mechanical prospective	Abel Brewster	Frankfort, Pa.	April 30, 1813
Divitials, and preventing forgeries	Simeon De Witt	Albany, N. Y.	Aug. 23, 1825
Engraving	C. S. Rafinesque	Lexington, Ky.	
	Isaac Hutton and G. Fairman	New York	Jan. 8, 1802
	Henry Tanner	Philadelphia, Pa.	July 1, 1815
	William Schaffer	New York	June 6, 1814
Flute, German	John Lamb	Hillsdale, N. Y.	July 29, 1820
Grammar, teaching	James Brown	Newark, N. J.	Mar. 3, 1817
Grammatical key	Cyrus Durand	Springfield, N. J.	Mar. 17, 1818
Grammatical mirror	Francis H. Smith	Northampton, Vt.	April 7, 1825
Harmonicon	Oliver Barber	Hartford, Ct.	May 13, 1813
Inkstand	James B. Manning	Gloucester, Mass.	Feb. 16, 1829
Lektorography	George Bruce	New York	April 4, 1820
Letters, making shaded	David Henderson	Jersey City, N. J.	Sept. 17, 1824
Lythography	Arch'd Robertson	New York	Mar. 5, 1804
Marble, preparing for painting	A. W. Law	Connecticut	May 12, 1802
Music, printing	Uri K. Hill	New York	Feb. 7, 1812
Do type			

Do arranging to printed books	-	Moses Elliot	June 9, 1818
Do teaching by means of a dumb instrument	-	Nichs. A. Leete	New York
Do notes	-	George Geib	Do
Musical instruments	-	William C. Phillips	Lunenburg, Va.
Do do keyed, producing a swell	-	John J. Hawkins	Pennsylyania
Organs	-	Charles Pomer	Philadelphia, Pa.
Ornamenting, gilding, &c., with types	-	Aaron M. Peasley	Boston, Mass.
columns	-	Frs. Bailey	Philadelphia, Pa.
Painting rooms	-	Cyrus Durand	Springfield, N. J.
Do fret	-	John Selby	-
Pen, metallic, writing	-	John Macay	New York
Do spring ruler	-	Peregrine Williamson	Baltimore, Md.
Do instrument for holding	-	Thos. M. Pomeroy &	Windsor, Vt.
Do flying	-	Lemuel Hedge	Georgetown, D. C.
Do double	-	Henry Smith	New York
Do microscopic	-	Lewis M. De Spraug	Do
Physiognotrace	-	Mark I. Brunell	Lowell, Mass.
Do	-	John Bennett	-
Do	-	J. Todd, Augs. Day, and William Baché	June 21, 1815
Piano forte	-	Daniel Atherton	Jan. 15, 1818
Do	-	James S. McLean	May 4, 1805
Do	-	John J. Hawkins	May 27, 1796
Do	-	Ralph Shaw	Feb. 12, 1800
Do	-	George Charters	July 2, 1806
Do	-	John Geib	July 8, 1815
Do	-	Jas. A. Guttwaldt	Oct. 3, 1817
Do	-	Rich'd Bury	Aug. 27, 1818
Do	-	James Stewart	Aug. 21, 1819
Do	-	John Dwight	Nov. 14, 1822
Do	-	Alpheus Babcock	July 29, 1824
Do	-	Do	Dec. 17, 1826

LIST OF PATENTS—FINE ARTS—Continued.

INVENTIONS OR DISCOVERIES.	NAMES OF PATENTEES.	RESIDENCE.	WHEN ISSUED.
Piano forte, horizontal -	Thos. Loud, Jr.	Philadelphia, Pa.	May 15, 1827
Do hammer heads, fitting	C. F. L. Albrecht	Do	Mar. 18, 1828
Do chromametro for tuning	John Makay	Boston, Mass.	Aug. 14, 1828
Pictures, ornamental frames, Jackson ground	Peter Pettinos	Philadelphia, Pa.	Mar. 3, 1820
Plates, graphic, for bank notes -	John Parker & Lewis	New York	Mar. 23, 1829
Do stereotype -	P. Clover	Philadelphia, Pa.	July 1, 1815
Pronunciation of syllables, conveying -	John Meer	Boston, Mass.	Nov. 20, 1829
Reading, mode of teaching -	Nathan Hale	Do	Nov. 3, 1819
Silk, oiled, manufacturing -	Jac. A. Cummings	Courtlandt, N. Y.	Feb. 16, 1809
Tablets, composition -	Hugh Chard	New York	Feb. 1, 1793
Transferring impressions from paper to wood	Ralph Hodgson	Windham	May 10, 1804
Varnishing and japanning	Amos D. Allen	A. C. Baker and M.	
Violin -	F. Biddle	Albany, N. Y.	Feb. 7, 1822
Writing, mode of teaching	James Finnigan	Newark, N. J.	Oct. 8, 1818
Do instrument -	John Edwards	New York	Feb. 17, 1820
Do mode of teaching -	Samuel Randall	Warren, R. I.	Oct. 1, 1810
Do do by plummets of lead	Ezra L. Miller	Charleston, S. C.	May 11, 1811
	Samuel Randall	Warren, R. I.	Jan. 11, 1812
	Thomas Weston	Peacham, Vt.	June 26, 1812

LIST OF PATENTEES—FINE ARTS.

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NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Allen, Amos D.	Windham	Tablet, composition	May 10, 1804
Atherton, Danl.	Richmond, Va.	Physiognotrace	May 4, 1805
Albrecht, C. F. L.	Philadelphia	Piano forte	Mar. 18, 1828
Brunell, Mark J.	New York	Pen, double	Jan. 17, 1799
Brewster, Abel	Frankfort, Pa.	Die work, substitute for etching	July 15, 1813
Barber, Oliver	Hartford, Ct.	Stand, ink	May 13, 1813
Brewster, Abel	Do	Counterfeit notes, use of types in preventing	July 15, 1816
Bailey, Francis	Philadelphia, Pa.	Gildings, &c., ornamenting with types	Oct. 9, 1816
Bury, Richard	Albany, N. Y.	Piano forte, glass strings	Aug. 21, 1819
Bruce, George	New York	Letters, making shaded	April 4, 1820
Baker, A. C., and M.			
T. Billde	Albany, N. Y.	Transferring impressions from paper to wood	Feb. 7, 1822
Babcock, Alpheus	Boston, Mass.	Piano forte	Dec. 17, 1825
Bennet, John	Lowell, Mass.	Pen, microscope machine	Oct. 11, 1828
Browne, James	Newark, N. J.	Grammatical key	Mar. 3, 1817
Carrendeffe, Baron A.	New York	Paint, yellow	Sept. 2, 1806
Chard, Hugh	Courtlandt, N. Y.	Reading, mode of teaching	Feb. 16, 1809
Charters, George	New York	Piano forte	July 8, 1813
Cummings, Jas. A.	Boston, Mass.	Syllables, conveying the pronunciation of	Nov. 3, 1819
De Witt, Simeon	Albany, N. Y.	Drawing, mechanical, perspective	April 30, 1813
Durand, Cyrus	Springfield, N. J.	Mirror, grammatical	Mar. 17, 1818
De Spraugh, Lewis M.	New York	Pen, flying, or tachygraphy	June 29, 1818
Durand, Cyrus	Springfield, N. J.	Columns, ornamenting	Sept. 22, 1818
Dwight, John	Boston, Mass.	Piano forte, longitudinal bar in a	July 29, 1824
Elliott, Moses	Boscawen, N. H.	Music, arranging to printed books	June 9, 1818

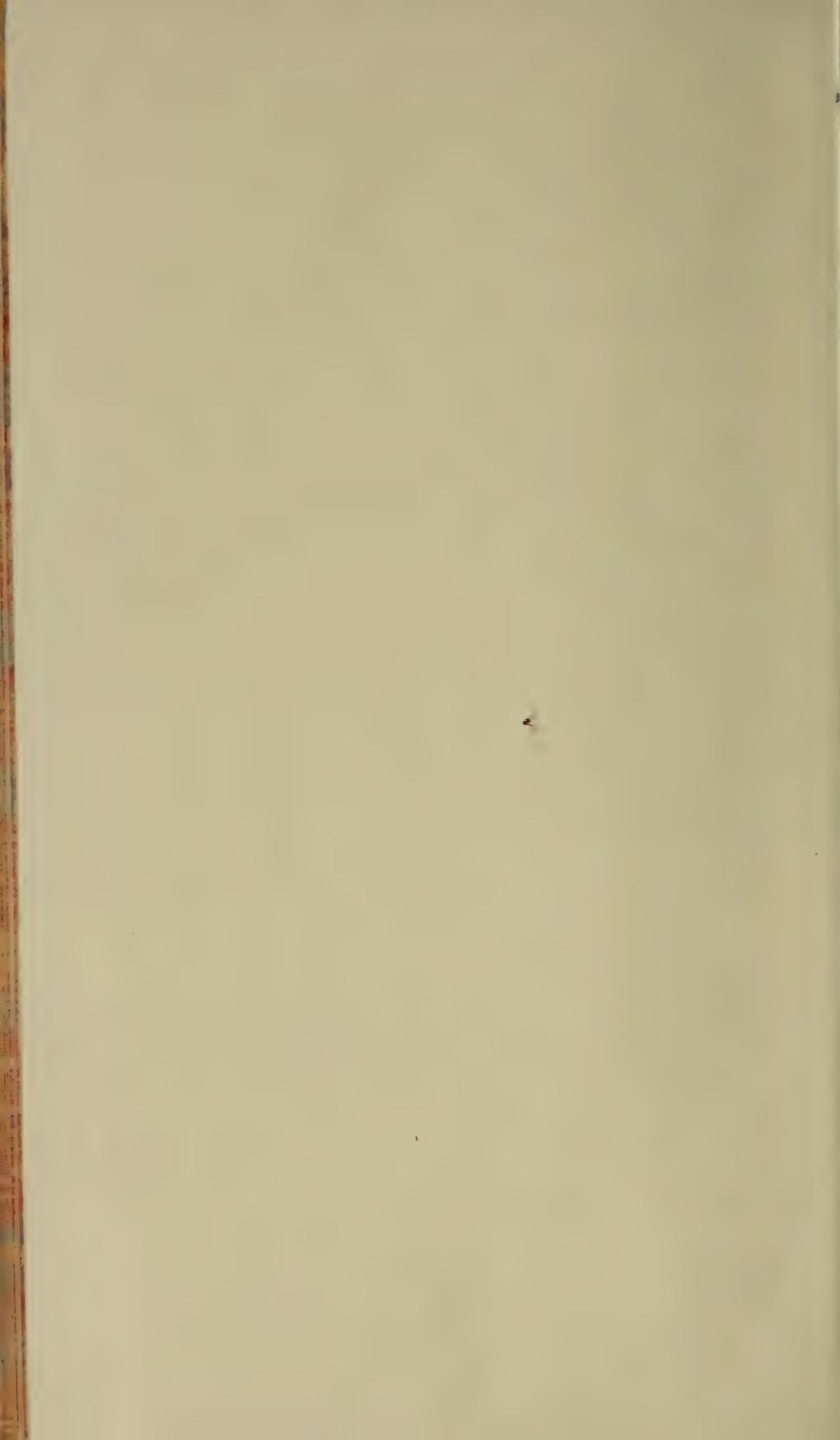
LIST OF PATENTEES—FINE ARTS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.	WHEN ISSUED.
Edwards, John	New York	Violin	Feb. 17, 1820
Finnigan, James	Newark, N. J.	Varnishing and japanning	Oct. 8, 1818
Guy, Francis	-	Colors, making for painting	Dec. 30, 1803
Geib, John	New York	Piano forte	Oct. 3, 1817
Gutwaldt, Jos. A.	Do	Do	Aug. 27, 1818
Geib, George	Do	Musie, teaching by means of a dumb instrument	Aug. 30, 1819
Hodgson, Ralph	Do	Silk, manufacturing oiled	Feb. 1, 1793
Hawkins, John J.	Pennsylvania	Piano forte	Feb. 12, 1800
Do	Do	Instruments, musical	Oct. 24, 1800
Hutton, Isaac, and G. Fairman	New York	Engraving	Jan. 8, 1802
Hill, Uri K.	Do	Music types	Feb. 7, 1812
Henderson, David	Jersey City, N. J.	Lithography	Sept. 17, 1824
Hale, Nathan	Boston, Mass.	Plates, stereotype	Nov. 20, 1829
Kneass, John	-	Counterfeits, preventing, by printing on the back of bank notes	April 28, 1815
Law, Andrew	Connecticut	Music, printing	May 12, 1802
Lete, Nichs. A.	New York	Do	June 11, 1818
Lamb, John	Hillsdale, N. Y.	Grammar, teaching	July 29, 1820
Loud, Thos., jr.	Philadelphia, Pa.	Piano, horizontal	May 15, 1827
McLean, James	New Jersey	Piano forte	May 27, 1796
Murray, George	Philadelphia, Pa.	Counterfeiting, mode of engraving and printing to prevent	Feb. 13, 1810
Miller, Ezra L.	Charleston, S. C.	Writing instrument	May 11, 1811
Murray, George	Philadelphia, Pa.	Bank notes, graphic plates for	June 25, 1813
Meer, John	Do	do	July 1, 1813

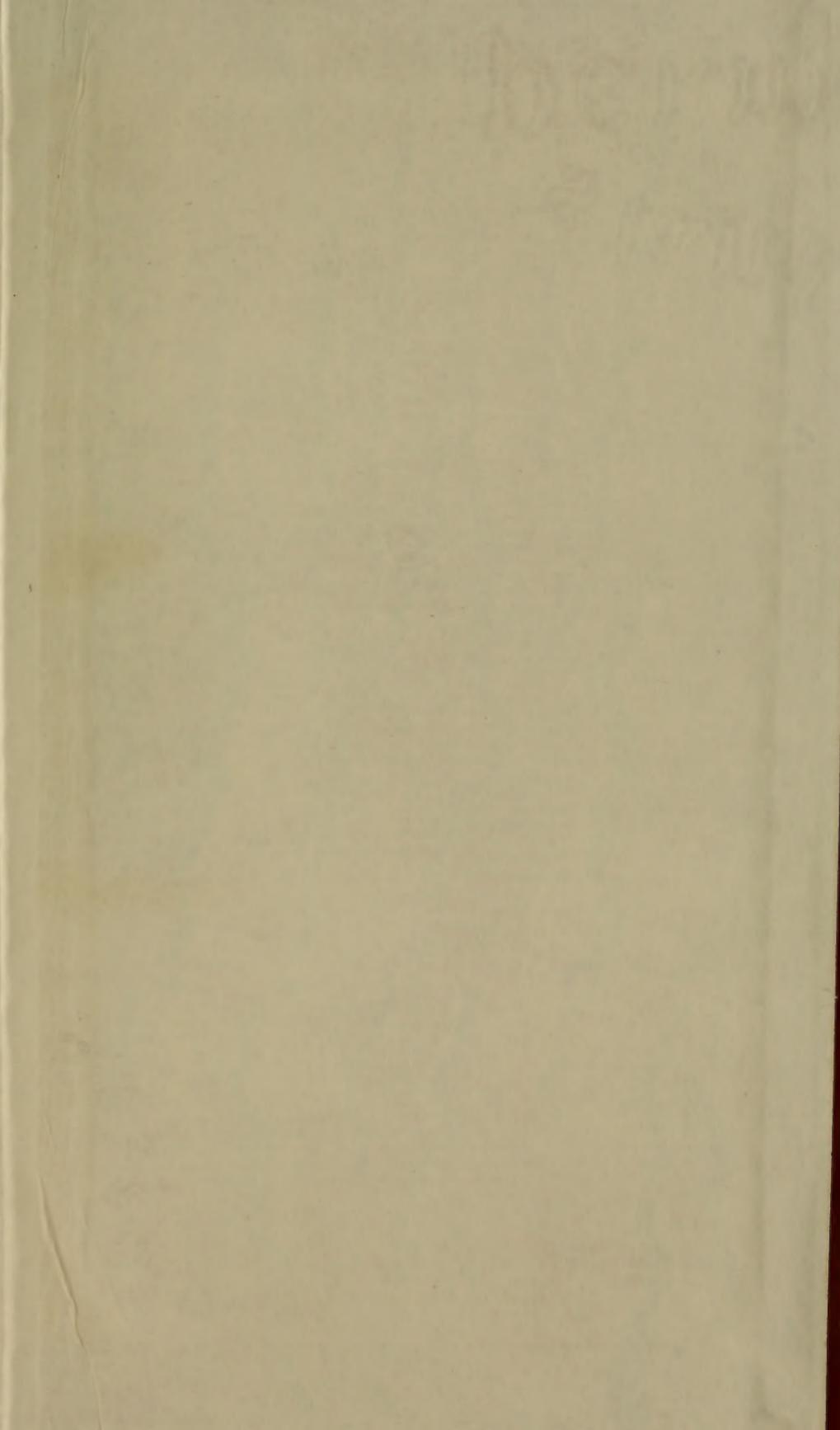
Maeray, John	New York	-	Fret, painting	-	May 28, 1818
Murray, George	Philadelphia, Pa.	-	Bank notes	-	Mar. 23, 1822
Mackay, John	Boston, Mass.	-	Piano forte, fitting hammer heads for	-	Aug. 14, 1828
Manning, Jos. B.	Glocester, Mass.	-	Lecktography	-	Feb. 16, 1829
Perkins, J.	Massachusetts	-	Notes, detecting counterfeit	-	Mar. 19, 1799
Do.	Boston, Mass.	-	Counterfeiting, mode of preventing	-	June 16, 1810
Perkins, Jac.	Newburyport, Ms.	{	Dies, circular, improvement on J. Perkins's	-	June 25, 1813
Geo. Morey	Philadelphia, Pa.	{			
Pomroy, Thos. M., & Leml. Hedge	Windsor, Vt.	-	Spring pen ruler	-	June 21, 1815
Pearly, Aaron M.	Boston, Mass.	-	Organs	-	Nov. 11, 1818
Pominer, Chas.	Philadelphia, Pa.	-	Instruments, producing a swell in keyed	-	Aug. 30, 1819
Puglia, James	Do	-	Bank notes	-	Aug. 13, 1822
Pettinos, Peter	Do	-	Chromamometro for piano tuning	-	Mar. 3, 1829
Parker, John, and L. P. Clover	New York	-	Picture frames, ornamental Jackson ground	-	Mar. 23, 1829
Phillips, Wm. C.	Lunenburg, Va.	-	Music notes	-	June 18, 1829
Robotham, Richard	Vermont	-	Houses, composition for flooring	-	April 12, 1794
Robertson, Arch'd	New York	-	Marble, preparing for painting	-	Mar. 5, 1804
Randall, Sam.	Warren, R. I.	-	Writing, mode of teaching	-	Oct. 1, 1812
Do	Do	-	Do do	-	Jan. 11, 1812
Rafinesque, C. S.	Lexington, Ky.	-	Divitials and preventing forgeries	-	Aug. 28, 1825
Selby, John	Boston, Mass.	-	Rooms, painting	-	Dec. 30, 1803
Shaw, Ralph	Boston, Mass.	-	Piano forte	-	July 2, 1806
Schaffer, William	New York	-	Flute, German	-	June 6, 1813
Smith, Henry	Georgetown, D. C.	-	Pen, instrument for holding the	-	Jan. 15, 1818
Stewart, James	Boston, Mass.	-	Piano forte, sounding boards for	-	Nov. 14, 1822
Sylvester, Nath'l	New York	-	Counterfeits, preventing	-	July 12, 1824
Smith, Frs. H.	Northampton, Va.	-	Harmonicon	-	April 7, 1825
Thompson, Cephas	Bristol, R. I.	-	Copying machine	-	Feb. 5, 1806
Tanner, Henry S.	Philadelphia, Pa.	-	Bank notes, etching end pieces of	-	July 1, 1815

LIST OF PATENTEES—FINE ARTS—Continued.

NAMES OF PATENTEES.	RESIDENCE.	INVENTIONS OR DISCOVERIES.		WHEN ISSUED.
Todd, J., Aug. Day, and William Baché	Philadelphia, Pa.	Physiognotrace	-	June 15, 1803
Vannini, Jos. -	Washington City, D.C.	Lotteries	-	Dec. 4, 1815
Do -	Philadelphia, Pa.	Lottery scheme	-	Oct. 18, 1823
West, Edw'd	Kentucky	Amulets	-	May 19, 1800
Williamson, Peregrine	Baltimore, Md.	Pen, metallic writing	-	Nov. 22, 1809
Weston, Thomas	Peacham, Vt.	Writing, teaching Wifford's art by plummets of lead	-	June 26, 1812
Wilcox, R. -	New York -	Forgeries, preventing	-	Sept. 19, 1823
Wilkes, Jonas	Do -	Delineator for fac similes	-	Sept. 9, 1825
Willis, R'd -	West Point, N. Y.	Bugle, Kent -	-	Nov. 10, 1827







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